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THE UNIVERSITY BULLETINS

TENTH SERIES: No. 4—PART 2

UNIVERSITY OF PENNSYLVANIA

SCHOOL OF DENTISTRY

(1909-1910)

Announcements for the 33d Annual Session

1910-1911



Founded 1740

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UNIVERSITY OF ILLINOIS

PHILADELPHIA:

PUBLISHED BY THE UNIVERSITY

APRIL, 1910

BI-MONTHLY

Entered at the Philadelphia, Pa., Post-Office as Second-Class Matter

SPECIAL NOTICE.

Copies of the University Catalogue (containing detailed information concerning all the Schools) may be obtained ONLY upon application to the Assistant Secretary of the University, Room 101, College Hall.

To any alumnus of the University, the Catalogue will be sent upon application on receipt of name, class and address.

The special announcement of the following divisions of the University will be sent upon application to the appropriate Dean:

THE COLLEGE, including

THE SCHOOL OF ARTS.

THE TOWNE SCIENTIFIC SCHOOL.

THE WHARTON SCHOOL OF FINANCE AND COMMERCE.

THE SATURDAY COURSES FOR TEACHERS.

THE SUMMER SCHOOL.

THE COLLEGE COURSES FOR TEACHERS.

THE GRADUATE SCHOOL.

THE LAW SCHOOL.

THE SCHOOL OF MEDICINE.

THE SCHOOL OF DENTISTRY.

THE SCHOOL OF VETERINARY MEDICINE.

UNIVERSITY OF PENNSYLVANIA

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1910.							1911.													
JULY.							JANUARY.							JULY.						
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THE UNIVERSITY.

General Information.

LOCATION.

The buildings of the University of Pennsylvania, thirty in number, are situated in Philadelphia, on property covering an area of over fifty-nine acres. The University may be reached from the various railroad stations as follows: From the West Philadelphia station of the Pennsylvania Railroad, on foot west on Woodland avenue, a walk of less than ten minutes; from the Philadelphia and Reading Terminal station, by the electric cars on Market street, or subway, west to Thirty-fourth street, thence on foot south to Woodland avenue; or from the Baltimore and Ohio Railroad station by a walk of one square south to Walnut street, thence by car over the bridge west to Thirty-fourth street.

APPLICATIONS FOR CATALOGUES, ETC.

Applications for copies of the annual University Catalogue (published in December) should be addressed to the Assistant Secretary of the University of Pennsylvania, Philadelphia, Pa.

The University also issues pamphlets relating to the several Schools or to individual courses and often containing information not found in the Catalogue. Inquirers interested in special branches of work only are advised to apply for these pamphlets, not for the Catalogue.

All letters of inquiry regarding the internal regulations and requirements in each separate School of the University should be addressed to the Dean of that School (see *Administrative Officers*, following) and *not* to the Assistant Secretary of the University.

ACCOMMODATIONS FOR STUDENTS.

Lodging for students to the number of about eight hundred is provided in the present dormitory system, which comprises an extended group of contiguous houses fronting upon three open courts. Plans of the dormitories, prices, and other details may be obtained upon application to the Bursar of the University, College Hall.

Prices for single rooms range from \$60 to \$140 per annum, and for double rooms from \$115 to \$265. About one-half of the rooms are *en suite*, providing for two students a common study, with two bedrooms.

HOUSTON HALL.

Houston Hall is the home of the Houston Club, to membership in which any member of the University is eligible.

Its purposes are to provide for the students a place where all may meet socially on common ground, and to furnish every available facility for healthy recreation and amusement in leisure hours. The equipment of the Hall includes a reading-room, with a large number of periodicals and newspapers; smoking-rooms, billiard and pool tables, tables for chess and checkers, a correspondence room, bowling alleys, shuffle boards, a bath-room, including shower and needle baths; athletic trophy rooms; a large auditorium with grand organ; rooms for the University papers and other organizations; a dark room for amateur photographers and many other rooms for general purposes.

The Christian Association, which has its headquarters in Houston Hall, is prepared to furnish prospective students, through its Secretary, full information with regard to the various undergraduate social activities, both secular and religious.

UNIVERSITY OF PENNSYLVANIA.

CHRONOLOGICAL TABLE.

- 1740—"Charity School" founded.
1749—The "Academy" established, with which the Charity School was combined.
1753—Charter granted by Thomas and Richard Penn, incorporating "The Academy and Charitable School."
1755—"Confirmatory Charter" granted by Thomas and Richard Penn, incorporating "The College, Academy and Charitable School."
1765—Medical School founded.

From September, 1777, to June, 1778, owing to the occupation of Philadelphia by British troops, recitations and lectures were suspended.

- 1779—Withdrawal of the chartered rights and privileges of The College by the State Assembly, and incorporation of the "University of the State of Pennsylvania."
1789—Restoration of its chartered rights and privileges to The College.
1790—Law School founded (re-established in 1850).
1791—Union of the University of the State of Pennsylvania with The College, under the title of the UNIVERSITY OF PENNSYLVANIA.
1874—University Hospital established.
1875—Towne Scientific School founded.
1877—Department of Music established.
1878—Dental School founded.
1881—Wharton School of Finance and Commerce founded.
1882—Graduate School founded.
1884—Veterinary School founded.
1885—Veterinary Hospital established.
1885—Department of Physical Education established.

- 1889—Department of Archæology established.
- 1892—Laboratory of Hygiene established.
- 1892—Wistar Institute of Anatomy and Biology established.
- 1892—Saturday Courses for Teachers established.
- 1896—Houston Club organized.
- 1896—Flower Astronomical Observatory opened.
- 1904—Summer School (College) established.
- 1906—College Courses for Teachers established.

ADMINISTRATIVE OFFICERS.

OF THE CORPORATION.

The General Offices are on the third floor of 400 Chestnut Street.

Provost—CHARLES C. HARRISON, LL. D.

General Offices, 400 Chestnut Street.

Vice-Provost—EDGAR F. SMITH, PH. D., Sc. D., LL. D.

Office in the JOHN HARRISON Laboratory of Chemistry, Thirty-fourth and Spruce Streets. Office hours, 8 A. M. to 6 P. M.
Saturdays, 8 A. M. to 1 P. M.

Assistant Secretary—EDWARD ROBINS.

Office, 101 College Hall. Office hours, 9.30 A. M. to 4.30 P. M.
Saturdays, 9.30 A. M. to 1 P. M.

Treasurer—WILLIAM H. HUTT, JR.

General Offices, 400 Chestnut Street.

Bursar—WILLIAM O. MILLER, A. B.

Office, 102 College Hall. Office hours, 9 A. M. to 5 P. M., daily.
The Bursar's office is open from 8.45 A. M. to 5 P. M. Saturdays, 8.45 A. M. to 1 P. M.

Assistant to the Provost—EDWARD B. ROBINETTE, B. S.

General Offices, 400 Chestnut Street.

OF THE COLLEGE AND PROFESSIONAL FACULTIES.

Dean of the College Faculty—GEORGE E. FISHER, PH. D.

Office, 103 College Hall, Woodland Avenue. Office hours,
9 A. M. to 12 M., daily.

Dean of the Graduate School Faculty—HERMAN V. AMES, PH. D.

Office, 105 College Hall, Woodland Avenue. Office hours,
9 A. M. to 1 P. M., daily.

Dean of the Law Faculty—WM. DRAPER LEWIS, LL. B., PH. D.
Office in the Law School Building, Thirty-fourth and Chestnut
Streets. Office hours, 11.30 A. M. to 12.30 P. M., daily,
except on Wednesdays, 12.30 to 1 P. M.

Dean of the Medical Faculty—ALLEN J. SMITH, A. M., M. D.
The Dean's Office (in the New Medical Laboratories, Hamilton
Walk) is open from 9 A. M. to 5 P. M.; Saturdays, 9 A. M.
to 1 P. M.

Dean of the Dental Faculty—EDWARD C. KIRK, D. D. S., SC. D.
Office, Dental Hall, Thirty-fourth and Locust Streets. Office
hours, 9 A. M. to 1 P. M., daily.

Dean of the Faculty of Veterinary Medicine—LOUIS A. KLEIN,
V. M. D.
Office, New Veterinary Building, Thirty-ninth Street and
Woodland Avenue. Office hours, 1 to 2 P. M., and 4 to 5
P. M., daily, except Saturdays.

OF THE DEPARTMENT OF PHYSICAL EDUCATION.

Director—R. TAIT MCKENZIE, A. B., M. D.
Office in the Gymnasium, Thirty-third and Spruce Streets.
Office hours, 3 P. M. to 6 P. M., daily, except Saturdays.

Physician—RUFUS B. SCARLETT, M. D., 4005 Chestnut St.
Office hours daily, from 8 to 9 A. M., 12 to 1 P. M., and from
7 to 8 P. M. Sundays until 10 A. M. Telephone connection.
Other hours by appointment.

Ophthalmologist—WILLIAM CAMPBELL POSEY, A. B., M. D., 2049
Chestnut Street.
Office hours, from 8.30 A. M. to 1 P. M., daily. Telephone con-
nection.

OF OTHER DEPARTMENTS.

Librarian of the University—MORRIS JASTROW, JR., PH. D.
Office in the Library, Thirty-fourth Street below Walnut. Office
hours, 10 A. M. to 1 P. M., daily.

The Library is open daily during term-time, except Sundays
and holidays, from 8.30 A. M. to 10 P. M. During the sum-
mer vacation, from 9 A. M. to 5 P. M.; during the session of
the Summer School, from 8.30 A. M. to 5 P. M.

Assistant Librarian of the University—KATHARINE STOCKTON LEIPER.

Office in the Library. Office hours, 2 P. M. to 5 P. M., daily.

Librarian of the Biddle Law Library—MRS. MARGARET C. KLINGEL-SMITH, LL. B.

Office in the Law School Building, Thirty-fourth and Chestnut Streets. Office hours, 10 A. M. to 5 P. M., daily.

Manager of the Bureau of Publicity—GEORGE E. NITZSCHE, LL. B.

Office in Houston Hall (third floor), Spruce Street above Thirty-fourth. Office hours, 9 A. M. to 6 P. M., daily.

Superintendent of the University Hospital—MARION E. SMITH.

The Hospital is on Spruce Street above Thirty-fourth. Communications concerning the business of the Hospital and the admission of patients should be addressed to the Superintendent.

Director of the William Pepper Clinical Laboratory—ALFRED STENGEL, M. D.

Office in the Laboratory. Office hours, 2 P. M. to 3 P. M., daily.
The Laboratory is on Spruce Street below Thirty-sixth, adjoining the Hospital.

Director of the Wistar Institute—MILTON J. GREENMAN, PH. B., M. D.

Office in the Institute, Thirty-sixth Street and Woodland Avenue. Office hours, from 9 A. M. to 12 M., daily, except Saturdays.

Director of the John Harrison Laboratory of Chemistry—EDGAR F. SMITH, PH. D., Sc. D., LL. D.

(For office and office hours, see under *Vice-Provost*.)

Director of the Laboratory of Hygiene—ALEXANDER C. ABBOTT, M. D., Sc. D.

Office in the Laboratory, Thirty-fourth Street below Walnut.

First Assistant in the Laboratory of Hygiene—DAVID HENDRICKS BERGEY, A. M., M. D.

Office in the Laboratory. Office hours, 9 A. M. to 12 M., and 2 P. M. to 5 P. M., daily.

Director of the Randal Morgan Laboratory of Physics—ARTHUR W. GOODSPEED, PH. D.

Office in the Laboratory, Thirty-fourth Street below Walnut

Director of the Light and Heat Station—HENRY W. SPANGLER, M. S.,
Sc. D.

Office in the Central Light and Heat Station, Thirty-fourth
and Spruce Streets, after 8.30 A. M.

Director of the Botanic Garden—JOHN M. MACFARLANE, D. Sc.

The Botanic Garden is adjacent to Biological Hall, on Hamilton Walk, and is open daily from 7 A. M. to sunset. The greenhouses are open from 8 A. M. to 5 P. M.

Director of the Flower Astronomical Observatory—CHARLES L. DOOLITTLE, C. E., Sc. D.

The Observatory is situated on the West Chester Pike, one and three-fourths miles beyond the city limits. (Take elevated cars on Market Street to Sixty-ninth Street, then change to Ardmore or Newtown Square car.) The residence of the Director is adjacent to the Observatory.

Director of the Wharton School of Finance and Commerce—JAMES T. YOUNG, Ph. D.

Office, Logan Hall, Thirty-sixth Street below Woodland Avenue. Office hours, 11 A. M. to 1 P. M., daily.

Director of the Summer School—ALBERT DUNCAN YOCUM, Ph. D.

Office, College Hall. Office hours, 2.30 P. M. to 4.30 P. M., daily, except Saturday.

UNIVERSITY MUSEUM.

The Museum contains the archaeological and ethnological collections of the University, and is situated on Spruce Street below Thirty-fourth, opposite Franklin Field. The collections are open to visitors daily, during the scholastic year, New Year's Day, Good Friday and Christmas Day excepted, from 10 A. M. to 5 P. M.; on Sundays, from 2 P. M. to 6 P. M.

GENERAL SUMMARIES.

OFFICERS OF INSTRUCTION.

The College	238
Graduate School.....	89
Law School.....	26
School of Medicine.....	163
" Dentistry.....	53
" Veterinary Medicine.....	29
Emeritus Professors.....	4
	602
Duplications	108
Total	494

STUDENTS.

The College	{ School of Arts.....	441	}	3287
	{ Towne Scientific School	1024		
	{ Wharton School.....	494		
	{ Courses for Teachers.....	575		
	{ Evening School of Accounts and			
	{ Finance	319		
	{ Summer School (1909)	434		
Graduate School		407		
Law School.....		345		
School of Medicine.....		544		
" Dentistry.....		435		
" Veterinary Medicine.....		167		
		5185		
Duplications		152		
Total		5033		

GEOGRAPHICAL SUMMARY OF STUDENTS.

Alabama	12	Belgium.....	1	California.....	18
Argentine Republic	6	Bermuda	1	Canada.....	8
Arizona.....	1	Bolivia	1	Central America..	8
Arkansas	3	Brazil	7	Chile	3
Australia	21	British Columbia..	4	China	29
Austria	2	Brit. West Indies	2	Colombia	3

Colorado	10	Korea	1	Peru	3
Connecticut.....	59	Louisiana.....	4	Philippine Islands.	2
Costa Rica.....	6	Maine	25	Porto Rico	16
Cuba.....	19	Maryland	66	Rhode Island	12
Delaware	65	Massachusetts....	50	Russia	8
Denmark	4	Mexico	10	Santo Domingo...	2
Dist. of Columbia.	31	Michigan	8	Scotland.....	2
Egypt.....	3	Minnesota	17	South Carolina ...	8
Ecuador.....	9	Mississippi.....	3	Spain.....	1
England	7	Missouri	22	Sweden.....	2
Florida	5	Montana	2	Syria.....	1
France	2	Nebraska	4	Tennessee	7
Georgia	15	New Hampshire ..	14	Texas	20
Germany	15	New Jersey	429	Turkey.....	4
Holland	4	New York	239	Utah.....	11
Idaho	2	New Zealand	13	Venezuela.....	1
Illinois	21	Newfoundland ...	2	Vermont	4
India	1	North Carolina...24		Virginia	23
Indiana	36	North Dakota	3	Washington.....	15
Iowa	23	Norway.....	1	West Virginia	11
Ireland.....	1	Nova Scotia.....	5	Wisconsin	16
Italy	4	Ohio	67		
Jamaica	1	Oregon	6	Total	5185
Japan	8	Panama	4	Duplications ...	152
Kansas	10	Paraguay.....	1		
Kentucky	10	Pennsylvania ..	3495	Total	5033

SCHOOL OF DENTISTRY.

FACULTY.

CHARLES C. HARRISON, LL. D., PROVOST.

EDGAR F. SMITH, PH. D., SC. D., LL. D., VICE-PROVOST.

JAMES TRUMAN, D. D. S., LL. D., Emeritus Professor of Dental Pathology, Therapeutics and Materia Medica.

EDWIN T. DARBY, D. D. S., M. D., Professor of Operative Dentistry and Dental Histology.

EDWARD T. REICHERT, M. D., Professor of Physiology.

GEORGE A. PIERSOL, M. D., SC. D., Professor of Anatomy.

JOHN MARSHALL, M. D., NAT. SC. D., LL. D., Professor of Chemistry and Toxicology.

EDWARD C. KIRK, D. D. S., SC. D., Professor of Dental Pathology, Therapeutics and Materia Medica, and DEAN OF THE FACULTY.

ALEXANDER C. ABBOTT, M. D., SC. D., PEPPER Professor of Bacteriology.

MATTHEW H. CRYER, D. D. S., M. D., Professor of Oral Surgery.

CHARLES R. TURNER, D. D. S., M. D., Professor of Mechanical Dentistry and Metallurgy.

GEORGE G. MILLIKEN, D. D. S., M. D., Assistant Professor of Operative Technics.

DAVID H. BERGEY, A. M., M. D., Assistant Professor of Bacteriology.

R. HAMILL D. SWING, D. D. S., Assistant Professor of Oral Surgery and Anesthesia.

A. DEWITT GRITMAN, D. D. S., Assistant Professor of Mechanical Dentistry.

FREDERIC A. PEESO, D. D. S., Assistant Professor of Crown-and-Bridge Work.

LECTURERS.

ROBERT HUEY, D. D. S., Lecturer on Operative Dentistry.

JOHN D. THOMAS D. D. S., Lecturer on Nitrous Oxide.

MEYER L. RHEIN, D. D. S., M. D., Lecturer on Dental Pathology.

SAFFORD G. PERRY, D. D. S., Lecturer on Operative Dentistry.

WILLIAM A. CAPON, D. D. S., Lecturer and Special Instructor in Porcelain Work.

ALFRED P. LEE, D. D. S., Lecturer on Materia Medica.

DEMONSTRATORS.

WILLIAM DIEHL, D. D. S., Demonstrator of Operative Dentistry.

GEORGE H. CHAMBERS, M. D., Assistant Demonstrator of Normal Histology.

FREDERICK W. AMEND, JR., D. D. S., Demonstrator of Mechanical Dentistry.

J. EDWARD DUNWOODY, D. D. S., Demonstrator of Crown-and-Bridge Work.

MILTON N. KEIM, JR., D. D. S., Demonstrator of Mechanical Dentistry.

JAMES G. LANE, D. D. S., Demonstrator of Mechanical Dentistry.

DANIEL W. FETTEROLF, M. D., Demonstrator of Chemistry.

ROBERT J. SEYMOUR, D. D. S., Demonstrator of Mechanical Dentistry.

JAMES A. DOWDEN, D. D. S., Demonstrator of Mechanical Dentistry.

LEON ALONZO RYAN, PH. D., Assistant Demonstrator of Chemistry.

WILSON ZERFING, D. D. S., Demonstrator of Operative Dentistry.

AUGUSTUS O. KOENIG, B. S., M. D., Demonstrator of Dental Metallurgy.

G. JANVIER PAYNTER, D. D. S., Demonstrator of Tooth Modeling.

FREDERICK W. ALLEN, D. D. S., Demonstrator of Operative Technics.

JOHN A. McCLAIN, D. D. S., Demonstrator of Operative Dentistry.

J. GARRETT HICKEY, D. D. S., Demonstrator of Physiology.
S. MERRILL WEEKS, D. D. S., Demonstrator of Orthodontia.
ALBERT W. JARMAN, D. D. S., Demonstrator of Mechanical
Dentistry.

WALTER W. McKAY, D. D. S., Demonstrator of Porcelain
Inlay Work.

JEHU T. GORE, D. D. S., Demonstrator of Operative Dentistry.

WALTER S. CORNELL, M. D., Demonstrator of Osteology.

CHARLES H. JACO, D. D. S., Demonstrator of Operative Den-
tistry.

ALFRED P. LEE, D. D. S., Demonstrator of Operative Dentistry.

GEORGE M. DORRANCE, M. D., Demonstrator of Applied Anat-
omy.

MICHAEL T. BARRETT, D. D. S., Demonstrator of Mechanical
Dentistry.

WILLIAM H. F. ADDISON, M. B., Demonstrator of Normal
Histology.

ELON L. KANAGA, D. D. S., Demonstrator of Crown-and-Bridge
Work.

HAROLD B. WOOD, M. D., Assistant Demonstrator of Normal
Histology.

DOUGLAS O. HENSON, D. D. S., Demonstrator of Operative
Dentistry.

EDWARD KENNEDY, D. D. S., Demonstrator of Mechanical
Dentistry.

PHILIP KURTZ, D. D. S., Demonstrator of Mechanical Dentistry.

SIDNEY A. SANDS, D. D. S., Demonstrator of Operative Dentistry.

LESLIE M. CRAVER, D. D. S., Demonstrator of Operative Den-
tistry.

JOHN W. DISMANT, D. D. S., Demonstrator of Mechanical Den-
tistry.

JOHN A. REIMOLD, Secretary of the School of Dentistry.

CLINICAL INSTRUCTORS.

Dr. EDWARD I. KEFFER,

Dr. JOHN R. YORKS,

Dr. DANIEL N. McQUILLEN.

ORGANIZATION OF THE DENTAL SCHOOL.

The School of Dentistry of the University of Pennsylvania was organized in the early part of 1878. It was the third school created as the dental department of a university, having been preceded in this respect by the Harvard School of Dentistry (organized in 1867), and the Dental Department of the University of Michigan (organized in 1875).

The motive leading to the creation of dental schools as regular departments of the university educational system was the rapid growth of dentistry as a profession. This necessitated improvement in the educational equipment of its practitioners, and tended to broaden the courses of instruction furnished by dental schools to meet the continual demand for more thorough training.

Realizing that but two conceptions of the status of dentistry were possible, viz.: that it was either a branch of medicine, or else a separate profession; and believing that its close relationship with medicine called for the future development of dentistry in conformity therewith, the Trustees took action resulting in the creation of the School of Dentistry of the University of Pennsylvania. The plan of instruction was so arranged that the branches common to both medicine and dentistry were taught concurrently by teachers who held corresponding chairs in both medical and dental faculties; while the strictly dental teaching was provided for by the creation of chairs whose incumbents were specially qualified for giving instruction in their respective branches. This arrangement is in strict accordance with the university idea, by which the teaching of allied branches is centralized in different departments. It does not imply that the School of Dentistry is a branch of the School of Medicine, for, as a matter of fact, both are distinct Schools of the University.

It is worthy of note that the School of Dentistry is actually, as well as in name, a School of the University. Its position as a recognized member of the University family confers upon its students certain advantages pertaining to that relationship. Its students enjoy in common with all other students of the University the privileges and social relationships pertaining to the student life of the whole body. Prominent among these features is membership in the Houston Club, an organization governed by students and domiciled in a club house which in its fittings and appointments is second to no other club house in Philadelphia. Its students have also the use of the Dormitories, and are admitted to all of the ath-

letic features of the University; while, with reasonable restrictions, the opportunity is afforded them to pursue such allied lines of study as in the judgment of the authorities may tend to add strength and fullness to the dental educational equipment.

The practical advantages that accrue to the dental student by such a broad policy are at once manifest. Its effects upon the status of the dental practitioner must be recognized when it is considered that during the student life, his association with the students of the other divisions of the University is upon a basis of equality in all that concerns the student life of the institution. The influence of this feature in bringing about a close relationship between dental and medical students develops a mutual respect and recognition, which in their career as practitioners is of the utmost importance.

EQUIPMENT.

The arrangement of the interior of the Dental Hall is such that facilities are provided for the thorough education of the student in every important detail of his professional work. The clinical operating-room occupies one entire floor of the main building, giving a floor space 180 by 50 feet, furnished with one hundred latest pattern Wilkerson operating chairs, each provided with a fountain cuspidor, with running water attached, and attachment for the Fisk saliva ejector. Each chair is provided with a bracket arm, and table for holding instruments, besides a separate table for the instrument case. Electric service is provided for each chair. A complete locker system in connection with the operative clinic furnishes means for the storage of instruments when not in use. In the fitting up of the operating-room, the aim has been to make the appointments as nearly as possible like those of a first-class private office, so that from the beginning of his course the student is familiarized with the conditions he will meet in actual practice.

One large general laboratory for prosthetic work is provided, and separate departments for crown-and-bridge work, orthodontia technics, prosthetic technics, operative technics, porcelain work including inlays, crown-and-bridge and continuous gum work, metal-lurgical work, cast metal fillings, vulcanizing and modeling; also special clinic-rooms and laboratories. Ample arrangements are provided for the convenience and comfort of the students in the care of instruments, tools, etc. There are also hat and coat rooms lavatories, etc., a bicycle-room, laundry, store-rooms, and living

apartments of the janitor; and an assembly-room for the exclusive use and recreation of the students when not on duty. The laboratories are fitted with the most approved appliances for work and instruction in the several departments of dentistry. Compressed air is supplied to the laboratory tables for melting and soldering operations, as well as for metallurgical work. The laboratory lathes are driven by electric motor, and no feature which could add to the facilities for thorough and accurate work has been omitted.

The lecture amphitheatre will comfortably seat 550. It joins the main building by a corridor, and in relation with it are arranged the dental museum and library.

As the laboratory, or manual-training, method forms a prominent and necessary adjunct to didactic teaching, facilities for carrying out the technic system of instruction are provided in connection with each subject to which the system is applicable.

ADMISSION.

The courses in Dentistry are not open to women.

Special attention is called to the rule requiring all applicants for matriculation to be present and enter their names *not later than October 10th following the official date of opening*, with the understanding, however, that the practical work scheduled for the period ending October 10th must be made up at the expense of the student.

Candidates for admission will not be permitted to matriculate for any session other than that immediately succeeding the date of matriculation. No candidate will be allowed to matriculate for more than one session at a time.

PRELIMINARY EDUCATIONAL REQUIREMENTS.

For the Session 1910-11 the minimum educational standard for unconditioned matriculation is 60 counts based upon the subjects specified on the next page of this catalogue or upon the equivalent of these counts in High School subjects attested by certificates or diplomas issued by approved High Schools or literary colleges. Applicants may be admitted upon a minimum of 45 counts upon the condition that 15 additional counts shall be made up before entrance upon the second year of the course.

An applicant whose credentials do not fully meet the requirements outlined above, or who does not pass the entrance examina-

tions with a percentage of 70 in every subject, may be admitted on condition that he make up the required work in any branch or branches (not exceeding 15 counts) as specified on the next page.

ENTRANCE SUBJECTS.

Counts.		Counts.	
4	First Year English	2	Trigonometry
3	Grammar, Rhetoric, and English Reading	5	Physics
5	First Year Latin	5	Chemistry
5	Latin Grammar, and Cæsar (four books)	5	American History, and Civics
5	First year German, French or Spanish	2	History of Greece and Rome
2	Advanced Arithmetic (in- cluding Metric System and Mensuration)	3	European History
5	Algebra through Quadratics	3	English History
2	Intermediate Algebra	2½	Elementary Botany
5	Plane Geometry	2½	Elementary Zoölogy
2	Solid Geometry	3	Advanced Drawing
		2	Shop work (in Manual Training School); sec- ond year (2)

The count values above specified are based upon work throughout a standard academic year consisting of thirty-eight weeks. Additional work will receive additional count credit,

In lieu of a diploma or certificate, covering the above specified requirement, the applicant will be required to pass a matriculate examination, which shall be the equivalent of that forming the basis of the entrance standard of preliminary education.

To assist the candidate in preparing for the entrance examination, the following studies are recommended, each representing one year's high school work:

LANGUAGE (9 counts).

English (4 counts).

(a) *Grammar*.—Parts of speech and their properties; declension; comparison; conjugation; general rules of syntax; analysis; parsing; meaning of words; paraphrasing; elements of rhetoric.

(b) *Composition*.—Special attention must be paid to spelling, punctuation, capitalization, matter and structure; paraphrasing; unity and coherence.

Text Books:—Reed & Kellogg, *Higher Lessons in English*; Woodley, *Foundation Lessons in English Grammar*.

(c) *English Reading:*—College entrance requirements, viz.: A general knowledge of the following works:

Shakespeare, *The Merchant of Venice* and *Julius Cæsar*; *The Sir Roger de Coverley Papers* in *The Spectator*; Goldsmith, *The Vicar of Wakefield*; Scott, *Ivanhoe*; Coleridge, *The Rime of the Ancient Mariner*; Carlyle, *Essay on Burns*; Tennyson, *The Princess*; Lowell, *The Vision of Sir Launfal*; George Eliot, *Silas Marner*.

A special knowledge of the subject-matter, form and structure of the following works: Shakespeare, *Macbeth*; Milton, *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Burke, *Speech on Conciliation with America*; Macaulay, *Essays on Milton and Addison*.

Latin (5 counts). First year high school course.

(a) *Grammar:*—Accentuation; rules for gender; declension of regular nouns, pronouns and adjectives; comparison of adjectives and adverbs; conjugation of regular verbs; general rules of syntax.

(b) Vocabulary exercises and translations of easy sentences and selections into English and into Latin.

Text Books:—Bennett, *Foundations of Latin*; Collar & Daniell, *First Year Latin*.

Note:—In lieu of Latin, the applicant may elect an equivalent in one year's course in German, French or Spanish.

Text Books:—Collar, *First Year German*; François, *Beginners' French*; DeTorne, *Combined Spanish Method*.

MATHEMATICS (12 counts).

Arithmetic (2 counts). The fundamental operations; fractions; decimals; compound numbers; interest; ratio and proportion; square and cube root; metric system; elementary mensuration; series.

Text Books:—Brooks, *Normal Standard Arithmetic*; Gideon, *Model Complete Arithmetic*.

Algebra (5 counts). The fundamental operations; factoring; fractions; equations of one or two unknowns; ratio and proportion; the simpler forms of radicals and of quadratics; binomial theorem.

Text Books:—Wentworth, *Short Course in Algebra*; Brooks, *Elements of Algebra*.

Plane Geometry (5 counts). Usual definitions, theorems, constructions and demonstrations; general principles of plane rectilinear figures; measurement of angles; similar polygons; areas; regular polygons; the circle; simple original problems.

Text Books:—Phillips & Fisher, *Plane Geometry*; Brooks, *Plane Geometry*.

HISTORY (9 counts).

(a) *History and Constitution of the United States* (4 counts). The most important discoveries and settlements; the struggles of European nations for mastery in America; the Revolution; the leading events under the successive administrations; the War of 1812; the Mexican War; the Civil War—the causes, most important campaigns, result; the general development of our nation in extent, population, industries and power.

The causes leading to the adoption of the Constitution; the most important features; the general principles of our government; the legislative department, the executive, the judicial, with their general duties and powers.

Text Books:—McLaughlin, *History of the United States*; Eggleston, *School History of the United States and its People*.

(b) *History of Greece and Rome* (2 counts). The most important political events; the prominent features of civilization; the most striking manners and customs of the people.

Text Books:—West, *Ancient History*; Myers, *Ancient History*.

(c) *History of England* (3 counts). Britain; Saxon England; Norman England; England under Plantagenets and Tudors; Puritan revolution; constitutional monarchy; British Empire.

The most important political events; development in civil and religious liberty and in civilization and literature; increase in extent of territory and in world influence.

Text Books:—Montgomery, *Leading Facts of English History*; Walker, *Essentials of English History*; Cheney, *Short History of England*.

SCIENCE (5 counts).

Elementary Physics (5 counts). Matter and its general properties; mechanical powers; pneumatics, hydrostatics; heat, sound, light; magnetism and electricity; simple experiments.

Text Books:—Gage, *Elements of Physics*; Carhart & Chute, *High School Physics*.

Note:—In lieu of Physics, the applicant may elect an equivalent in one year's course in Chemistry.

Text Books:—Shepard, *Elements of Chemistry*; Remsen, *Elementary Course in Chemistry*.

Second Year English (3 counts).

(a) *Grammar* (continued):—Composition and rhetoric.

Text Books:—Hill, *Elements of Rhetoric and Composition*; Thorndike, *Elements of Rhetoric and Composition*.

(b) *Literature*. DeCoverley papers, *Pilgrim's Progress*, *Franklin's Autobiography*, *As You Like It*, *Twelfth Night*, *Merchant of Venice*, *Silas Marner*, *Vicar of Wakefield*, *House of Seven Gables*, *Deserted Village*, *Rape of the Lock*, *Palgrave's Golden Treasury* (Books II and III).

Second Year Latin (5 counts).

Grammar. Easy composition, Cæsar (4 books).

Text Books:—Bennett, *Latin Grammar*; Mitchell, *Essentials of Latin*; Cæsar, *Commentaries*, any standard edition.

Note:—In lieu of Latin the applicant may elect an equivalent course in German, French or Spanish.

Intermediate Algebra (2 counts). Imaginary quantities, evolution, quadratics, progressions.

Text Books:—Wells, *Essentials of Algebra*; Milne, *High School Algebra*.

Solid Geometry (2 counts). Usual theorems, constructions and demonstrations; properties and measurement of prisms, pyramids, cylinders and cones; surfaces and volumes of solids; the sphere and the spherical triangle; simple original problems.

Text Books:—Brooks, *Solid Geometry*; Wells, *Solid Geometry*.

Plane Trigonometry (2 counts). Definitions and relations of the six trigonometric functions as ratios; circular measurements of angles; proof of principal formulæ; simpler uses and theories of logarithms; applications.

Text Books:—Brooks, *Plane Trigonometry*; Wells, *Plane Trigonometry*.

European History (3 counts). Carlovingian empire, feudalism (10th century); the Papacy and German-Roman empire (to 13th century); formation of France to 1328; the East and the crusades (1096-1270); Christian and feudal civilization; the Renaissance (14th and 15th centuries); Protestant revolution and wars of religion (1527-1648); France and age of Louis XIV; Russia and age of Frederick the Great; French Revolution; age of Napoleon (1795-1815); growth of nationality, democracy and liberty in the 19th century.

Text Books:—Myer, *General History*; Fisher, *General History*.

Elementary Botany (2½ counts). Seeds and seedlings; roots, stems, buds, flowers, fruits; mosses and ferns; algæ and yeast; general function and structure of parts; life history; experiments.

Text Books:—Andrews, *Botany all the Year 'Round* (without flora); Bergen, *Elementary Botany*.

Note:—An equivalent course in elementary zoölogy will be accepted in lieu of botany.

Advanced Drawing (3 counts). Freehand and Mechanical.

Manual Training School Shopwork (2 counts).

Other text books than those named may be used, provided they cover the subjects to the extent indicated.

Other subjects than those named in the lists preceding will have full credit-counts given to them, provided they represent a year's work in the course of a high school or equivalent school or institution.

DATE OF ENTRANCE EXAMINATIONS.

The entrance examinations for the session of 1910-11 will be held in Southern High School Building, Broad and Jackson streets, Philadelphia, on the following dates: Friday and Saturday, June 3-4, 1910, at 2.30 P. M., and on Friday and Saturday, September 16-17, 1910, at 2.30 P. M.

Registration cards and permits for the entrance examination must be first obtained from the office of the Dean of the School of Dentistry in Dental Hall, Thirty-third and Locust streets, Philadelphia.

Regents' Academic Counts are required from students entering from New York State.

ADMISSION TO ADVANCED STANDING.*

Students possessing the requisite preliminary education and who have attended one full term in a dental school recognized by this University, will be admitted to the second year, subject to the rules governing admission to advanced standing.

Graduates of a recognized medical school will be admitted to the Second-year Dental Class without examination.

Applicants for advanced standing, who have not had instruction in Practical Histology and Practical Chemistry equivalent to that required by this department, will be permitted to make up such deficiency by taking special courses, for which an extra fee of fifteen dollars is charged for each branch. Classes for special courses in these branches are organized during the second week in September for the benefit of those desiring to take the laboratory work before the work of the regular session.

Students who have credit for the completed work of two or more terms in a recognized dental school, and who possess the requisite preliminary educational qualifications, are eligible for admission to the third year, subject to the rules governing admission to advanced standing.

Graduates of foreign dental schools are required to conform to the rules governing preliminary educational qualifications as well as the rules governing advanced standing, and their credentials must have been satisfactorily authenticated before they can be accepted.

SCHOLARSHIPS.

I. UNIVERSITY SCHOLARSHIPS.—The Trustees have established two University Scholarships in Dentistry, the award of which is based upon the result of a competitive examination equivalent to that demanded for admission to the technical courses in the College. They are not awarded for less than the entire course.

Examinations for these scholarships are held on the same day with those fixed for entrance to the College (Thursday, September 15, 1910), and are open to all applicants otherwise eligible for admission to the School of Dentistry. Circulars setting forth in detail the plan of the scholarship examination may be had upon application to the Dean of the School of Dentistry.

* All applicants for advanced standing must pass the examinations of the years they desire to omit, or furnish proof that they have passed *equivalent* examinations in some recognized dental or medical school.

A registration fee of five dollars is required of all candidates for scholarship and entrance examination, and is not returnable in case of failure to pass.

2. PUBLIC SCHOOL PRIZE SCHOLARSHIPS.—Under an agreement with the city of Philadelphia, fifty free scholarships exist in the University for the benefit of graduates of the public schools. The candidates for these scholarships are examined by the Board of Public Education, and award is made to those who reach the highest grade, as vacancies occur from year to year.

STATUS OF STUDENTS.

A regular student is one who is regularly admitted to the School, and who is a candidate for the degree of D. D. S.

A special student is one who is regularly admitted to the School, but who, not being a candidate for the degree, does not take the regular course. The admission of special students is at the discretion of the Dean.

SPECIAL COURSES.

The School offers special courses of instruction in any or all of the branches of the curriculum. Such courses are elective and do not lead to the dental degree. The fees for the special courses are \$50.00, \$100.00 or \$150.00, depending upon whether the student remains under instruction for three months, six months or the entire session respectively. These course fees are in all cases additional to the regular matriculation fee of \$5.00.

HOUSTON CLUB AND GYMNASIUM.

A uniform charge of \$10.00 a year is made upon all students, to include membership in Houston Club with all of the usual club privileges, and the use of the gymnasium and its facilities, including locker and the use of Franklin Field, excepting only at such times as the Field may be in use by athletic teams.

PHYSICAL EDUCATION.

In the School of Dentistry two hours a week of graded physical culture is an obligatory part of the curriculum for all students of the first year, excepting those who have previously had an equivalent course of physical training elsewhere and those who for reasons of physical disability may be excused by the Director.

ARRANGEMENT OF SESSION.

The academic year consists of one session beginning on the fourth Friday in September, and ending at Commencement, on the third Wednesday in June. The course of instruction is graded.

Laboratory instruction, not only in all of the practical dental branches, but also in Practical Chemistry, Metallurgy, Histology, Bacteriology, Physiology and Osteology, forms a prominent feature of the course.

The session of 1910-11 will begin on Friday, September 23, 1910.

MID-TERM EXAMINATIONS.

The arrangement of subjects constituting the curriculum of the first, second, and third years as specified here and on pp. 30 *et seq.*, is provisional only, and subject to change before the opening of the following session.

In the first-year course final examinations are held about February 1 in Chemistry, Histology and Elementary Anatomy.

In the second-year course, at the same date, final examinations are held in Elementary Physiology and Bacteriology and a progress examination will be held on Applied Anatomy.

In the third-year course final examinations are held at mid-term in Metallurgy, Crown-and-Bridge Work, Dental Ceramics, Anesthesia, Orthodontia, and a progress examination in oral Surgery.

RULES GOVERNING MID-TERM EXAMINATIONS.

1. NON-PRESENTATION AND FAILURES.

A student who has not undergone examination, or who has failed to attain a mark of 50 in any examination, may be re-examined:

(a) At the first re-examination about March 1; or, failing then

(b) At the second re-examination about one week prior to the final examinations of the academic year in May.

2. FAILURE TO MAKE A GENERAL AVERAGE OF 60.

A student having passed all the examinations, but failing to attain a general average of 60, may avail himself of the privileges of the re-examinations at the times designated in paragraph 1, in all of the subjects in which a mark of less than 60 was attained.

3. ELIGIBILITY FOR FINAL EXAMINATIONS IN MAY.

All the mid-year examinations must be passed before the candidate becomes eligible for the final examinations for the academic year, held in May.

4. REPETITION OF THE STUDIES OF THE YEAR.

The general rules governing the repetition of the studies of any year shall apply to those students who failed to pass or to attain the required general average, or who were eligible to appear at the final examinations of the academic year, held in May.

RULES GOVERNING TERM EXAMINATIONS.

FIRST AND SECOND YEAR STUDENTS.

1. The examination marks are based on a scale of 100. Each student must obtain a general average of 60 to pass the examinations of the year. 50 on a single branch will entitle him to average; less than 50 constitutes a failure in that branch.

2. Students who have failed to pass in any or all of the branches are given an opportunity for a second examination, before the opening of the next regular session, on the stated day in September designated for re-examinations in the official calendar in this Catalogue; but if the student fail to appear, or if his general average be less than 60, he shall repeat the studies of the year except those in which he received a grade of not less than 70.

3. A student may be permitted to matriculate in the succeeding year, if he has successfully passed all but one branch, on condition that the one in which he has been found deficient must be passed on or about October 15 of the year in which he has been matriculate 1. Failing at the October examination to pass the branch in which he is conditioned, the student will be required to repeat the work of the year as provided in Rule 2. This rule applies to laboratory and clinical requirements as well as to didactic work.

4. No student will be eligible for examination if any portion of his fees remains unpaid.

EXAMINATION FOR GRADUATION.

1. The examination marks shall be upon a scale of 100.

2. Each candidate must attain at least 50 in any single branch, and have a general average of 60, before he can be recommended for graduation.

3. Candidates who attain a general average of at least 90 shall be considered to have gained Honors of the first class, and will receive Honorable Mention.

4. The graduation average shall be based on the examination marks of the whole curriculum.

5. Examinations are held immediately after the completion of the lecture courses.

No student can be examined before that time except by consent of the Faculty.

GRADUATION.

At the close of the course, a student who has fulfilled all requirements satisfactorily receives the degree of *Doctor of Dental Surgery* (D. D. S.), under the following regulations:

I. He must be of legal age and of good moral character.

II. He must have passed a satisfactory examination in all the branches of the curriculum; must have attended the practical instruction and performed the required practical work in all departments; and his last year of instruction must have been at the School of Dentistry of this University.

III. He must have dissected at least two parts; must have performed thoroughly, and to the satisfaction of the Professor of Operative Dentistry, all the usual dental operations; must have undertaken at least one artificial case comprising a full upper and lower denture, and brought it completed, with the patient, to the Assistant Professor of Mechanical Dentistry, before the fifteenth day of May; and must have prepared for presentation to the Professor of Mechanical Dentistry, before the fifteenth of May, a specimen case to be deposited in the University collection. The required operations, as well as the work on the artificial case, must have been performed in Dental Hall.

IV. After receiving notice of having successfully passed the final examination, he must enter his name on the Register of Candidates for the Degree.

V. He must be present at Commencement, unless excused by the Dean of the Faculty.

TEXT-BOOKS AND WORKS OF REFERENCE.*

Text-Books.

Works of Reference.

Operative Dentistry:

Kirk, the American Text-
Book of Operative Dentis-
try.

Johnson, Principles and Practice
of Filling Teeth.
Kingsley, Oral Deformities.

* In all cases the latest editions should be obtained.

Text-Books.

Works of Reference.

Mechanical Dentistry and Metallurgy:

Turner, The American Text-Book of Prosthetic Dentistry.

Essig-Koenig, Dental Metallurgy.

Dental Pathology and Therapeutics:

Burchard-Inglis, Dental Pathology, Therapeutics and Pharmacology. (Second edition.)

Adami, General Pathology.

Materia Medica:

Prinz, Dental Materia Medica and Therapeutics.

Wood & Bache, United States Dispensatory.

Pharmacopœia of the United States.

Long, Dental Materia Medica.

Orthodontia:

Angle, Treatment of Malocclusion of the Teeth and Fractures of the Maxillæ.

Chemistry:

Richter, Inorganic Chemistry.
Alex. Smith, General Inorganic Chemistry.

Mitchell, Dental Chemistry.

Medicus, Qualitative Analysis. (Seventh edition.)

Histology:

Piersol, Normal Histology.

Anatomy:

Piersol, Human Anatomy.
Black, Dental Anatomy.

Cunningham, Human Anatomy.
Tomes, Dental Anatomy.

Dissection Manual:

Cunningham, Practical Anatomy.

Text-Books.

Works of Reference.

Applied Anatomy:

Cryer, Studies of the Internal
Anatomy of the Face.

Physiology:

Stewart, Manual of Physi- Howells, Physiology.
ology.

Oral Surgery:

Von Bergman, A System of Marshall, Injuries and Sur-
Practical Surgery. Vol. I. gical Diseases of the Face,
Mouth and Jaws.

Bacteriology:

Abbott, Principles of Bacteri- Miller, Micro-Organisms of the
ology. Human Mouth.

Dictionary:

Gould, Student's Medical Dic-
tionary, or Dorland's.

ROSTER.*

FIRST-YEAR CLASS.—SESSION 1909-1910.

Order of Instruction before February 1.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9 A. M.	Cornell. Osteology and Syndesmology.	Cornell. Osteology and Syndesmology.	Class divided into Sections for Instruction in Prosthetic and Operative Technics.	Class divided into Sections for Instruction in Prosthetic and Operative Technics.	Turner. Prosthetic Dentistry.	Dental Anatomy and Modeling Tooth Forms.
10 A. M.	Marshall. Chemistry.	Marshall. Chemistry.			Class divided into Sections for Instruction in Prosthetic and Operative Technics.	
11 A. M.	Physical Education.	Prosthetic and Operative Technics.				
1.30 to 4 P. M.	Class divided into Sections for Pract. Work in Chemistry and Histology.	Class divided into Sections for Pract. Work in Chemistry and Histology.	Class divided into Sections for Pract. Work in Chemistry and Histology.	Class divided into Sections for Pract. Work in Chemistry and Histology.	3 P. M. Physical Education.	
4 P. M.	Piersol. Anatomy.	Piersol. Anatomy.	Marshall. Chemistry.	Piersol. Anatomy.	Piersol. Anatomy.	
5 P. M.		Dorrance. Anatomy Recitations.		Dorrance. Anatomy Recitations.		

* Rosters are subject to rearrangement at the beginning of each academic year.

SECOND-YEAR CLASS.—SESSION 1909-1910.

Order of Instruction before February 1.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9 A. M.	Gritman. Prosthetic Technics.	Section Work in Prosthetic Dentistry, or Crown and Bridge Work, or Operative Clinic.	Bergey. Bacteriology.	Section Work in Prosthetic Dentistry, or Crown and Bridge Work, or Operative Clinic.	Section Work in Prosthetic Dentistry, or Crown and Bridge Work, or Operative Clinic.	Operative Clinic.
10 A. M.	Section Work in Prosthetic Dentistry, or Crown and Bridge Work, or Operative Clinic.		Section Work in Prosthetic Dentistry, or Operative Clinic.			
11 A. M.						
12 M.		Kirk. Dental Pathology and Therapeutics.	Cryer. Oral Surgery.			Cryer. Oral Surgery.
1.30 to 4 P. M.	Section Work. Dissecting, Bacteriology, or Physiology Demonstration.	Section Work. Dissecting, Bacteriology, or Physiology Demonstration.	Section Work. Dissecting, Bacteriology, or Operative Clinic.	Section Work. Dissecting, Bacteriology, or Operative Clinic.	Section Work. Dissecting, Bacteriology, or Operative Clinic.	
4 P. M.	Reichert. Physiology.	Reichert. Physiology.		Reichert. Physiology.	Reichert. Physiology.	
5 P. M.	Turner. Prosthetic Dentistry.	Darby. Operative Dentistry.		Darby. Operative Dentistry.	Kirk. Materia Medica.	

THIRD-YEAR CLASS.—SESSION 1909-1910.

Order of Instruction before February 1.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9 A. M.	Operative or Prosthetic Clinical Pract. Crown and Bridge Work.	Capon. Dental Ceramics.	Weeks. Orthodontia.	Gritman. Prosthetic Technics.		Operative Clinic.
10 A. M.		Operative or Prosthetic Clinical Pract.	Operative or Prosthetic Clinical Pract.	Operative or Prosthetic Clinical Pract.	Operative or Prosthetic Clinical Pract.	
11 A. M.		Ceramics. Crown and Bridge Work.		Ceramics. Crown and Bridge Work.	Ceramics. Crown and Bridge Work.	
12 M.		Kirk. Dental Pathology and Therapeutics.	Cryer. Oral Surgery.	Swing. Anaesthesia.		Cryer. Oral Surgery.
1.30 to 5 P. M.	Operative Clinic, Orthodontia, Inlay Work, Practical Metallurgy.	Operative Clinic, Orthodontia, Inlay Work, Practical Metallurgy.	Operative Clinic, Orthodontia, Inlay Work, Practical Metallurgy.	Operative Clinic, Orthodontia, Inlay Work, Practical Metallurgy.	Operative Clinic, Orthodontia, Inlay Work. 4 P. M. Peeso. Crown and Bridge Work	
5 P. M.	Turner. Orthodontia.	Darby. Operative Dentistry.	Turner. Prosthetic Dentistry.	Darby. Operative Dentistry.		

Medical and Surgical Clinics at the University Hospital are held from 12 M. to 2 P. M., on Wednesdays and Saturdays, and are open to the Second and Third-year Classes. These are in addition to the dental clinics at the Philadelphia Hospital, on Saturdays at 12 o'clock, and to the Oral Surgical Clinics as noted on the roster.

OPERATING-ROOM, LABORATORIES, ETC.

The operative clinic room and laboratories are spacious and well equipped, affording ample facilities for the practical training of the student.

The dissecting-room is large, well lighted, thoroughly ventilated, and furnished with ample material for the successful prosecution of anatomical studies.

GRADATION OF THE COURSE.

In order to facilitate work in the practical branches, and to economize the student's time, the regular session is so arranged that students during the first year are required to devote the time equally to dental, histological and chemical laboratory work.

During the second and third years, the student has practically the entire forenoon of each day for dental work. Thus ample opportunity is afforded for practice in Operative and Mechanical Dentistry. In the latter branches, the students are divided into sections, devoting the time not otherwise engaged to practice in the operating-rooms.

This plan of gradation enables the First-year student to present himself for examination in the following branches: Chemistry, Histology and Anatomy, including Osteology and Myology, and on Progress in Mechanical Dentistry, Operative Technics and *Materia Medica*. The Second-year student will be examined on *Materia Medica*, Bacteriology, Applied Anatomy and Physiology, and on Progress in Operative and Mechanical Dentistry. Such an arrangement is economical not only in point of time, but also in facilitating a student's acquirement of knowledge in the remaining branches.

OUTLINE OF THE COURSE.*

FIRST YEAR.

Students of the First-year Class will be required to attend instruction in and pass examinations upon the following branches:

1. Chemistry. Three lectures a week. Five hours laboratory.
2. Anatomy. Four lectures a week. One-half the required work in dissecting is done during this year.

* See first paragraph under Mid-Term Examinations, p. 26.

3. Histology. Five hours laboratory a week.
4. Osteology. Two lectures a week.
5. Materia Medica. One lecture a week.
6. Students of the First-year Class will be trained in Operative and Mechanical Technics during hours not otherwise occupied.
7. They will, in addition to the subjects named, attend lectures on Operative and Mechanical Dentistry. Each one hour a week.
8. Physical Education. Two hours a week.

SECOND YEAR.

1. Students of the Second-year Class will attend lectures on Materia Medica, Physiology, Operative and Mechanical Dentistry and Metallurgy, Dental Pathology and Therapeutics, Bacteriology, Applied Anatomy and Oral Surgery. Work in Practical Anatomy (dissecting) is finished during this year.
2. They will pursue Operative and Mechanical Work, with the privilege of the operating-room and appliances during the morning and afternoon clinics.
3. The final examinations of the second year will be upon Materia Medica, Physiology, Bacteriology, Applied Anatomy and Progress in Operative and Mechanical Dentistry.

THIRD YEAR.

1. Students of the Third-year Class will continue the practical work in Operative Dentistry, Mechanical Dentistry and Dental Metallurgy, and the lectures on these subjects, together with Dental Pathology and Therapeutics, Oral Surgery and Orthodontia.
2. Examinations at mid-term of the third year will be held upon one-half of the subject of oral surgery and upon the following minor subjects: Dental Metallurgy, Ceramics, Crown-and-Bridge Work, Orthodontia and Anesthesia.
3. At the close of the term, examinations will be held upon Operative Dentistry, Prosthetic Dentistry, Dental Pathology and Therapeutics, and Oral Surgery.

COURSE OF INSTRUCTION.

The lectures on OPERATIVE DENTISTRY AND DENTAL HISTOLOGY embrace the comparative anatomy of the teeth; the functions and microscopical peculiarities of the dental organs; the development of teeth and their component tissues; a full description of the elucidation of all dental operations, such as filling, extracting and regulating; the pathological relations of the teeth to the other parts

of the system; and a minute description of all diseases related to dental surgery or of interest to the dentist. The methods taught are demonstrated in clinics.

The course of instruction in MECHANICAL DENTISTRY is a graded one, and is arranged to embody in the teaching of the first year the fundamental principles of prosthetic work, including the properties of the materials used for prosthetic purposes and the various mechanical processes involved in their utilization; in the second year a more specific and extended instruction in these procedures is given, and the finger-skill necessary in the usual mechanical operations is developed; while in the third year the student is instructed in the choice of means for attaining a given end, and the selection of this means in accordance with the requirements of specific cases. During the third year attention is given to the more highly specialized branches of Prosthetic Dentistry under qualified demonstrators.

Instruction in Mechanical Dentistry is accomplished by didactic lectures illustrated by means of heroic models, lantern slides, and blackboard drawing; by graded technic courses, which include in each year illustration of the lecture topics by actual demonstration of the processes before the class, and the manufacture of the appliances so illustrated by the class, divided into small sections for systematic work; by specimens on exhibition in the general laboratory illustrative of successive stages in the technic requirements; and by abundant clinical practice.

The lecture course will include, in addition to dental prosthesis the replacement of tissues about the mouth not strictly dental, and the manufacture of appliances for the remedy of palatal defects.

The instruction in ORTHODONTIA will be by means of lectures, quizzes, a technic course and clinical practice; and attention will be specially paid to the treatment of cases in the light of their etiology.

The lectures on CHEMISTRY embrace the study of chemical physics and principles of chemical philosophy, together with a detailed consideration of the principal elementary substances and their compounds; and of the fundamental principles of Organic Chemistry, including the classification of organic compounds, and the special study of typical members of the different classes. Special attention is also given to the laws of chemical affinity, and the conditions under which they are modified, especially as they relate to the preparation of mixtures and prescriptions.

The course in PRACTICAL CHEMISTRY in the laboratory includes exercises in chemical manipulation; the study of the chemical prop-

erties of the principal metals; the reactions of acids and their combinations; and the general principles of qualitative analysis, especially as they relate to the detection and separation of the metals and compounds of interest to practitioners of Dentistry. Each student is provided with a separate table and apparatus, and is required to perform all the usual chemical manipulations under the directions of demonstrators, as well as to exhibit by written formulæ all reactions involved in his tests.

HUMAN ANATOMY is taught in its relations to all the branches of medical science, including Dentistry. The lectures are illustrated by fresh dissections of the human body, and by a rich museum of anatomical specimens, well-executed models and drawings.

In addition to the lectures and demonstrations by the Professor of Anatomy, a course of demonstrations in Applied Anatomy is given to the students of the second year. The course consists of a drill by recitations and demonstrations of dissections upon those anatomical regions with which the dental and oral surgeon is especially concerned. Practical instruction in general and special HISTOLOGY will be given in the histological laboratory to the students of the first year, the class being divided into sections. The laboratory is furnished with excellent microscopes, and all apparatus necessary to enable the student to become familiar with the most approved methods of microscopical technology and with the minute structure of all the tissues and organs. Special facilities are afforded for original research; for this purpose the laboratory is open throughout the year, except during July and August.

The OSTEO-SYNDESMOLOGICAL LABORATORY is under the supervision of the Professor of Anatomy and Demonstrator of Osteology. In this laboratory, the first-year student is required to make himself familiar with the skeleton and the articulations as a part of his instruction in practical anatomy.

The course in PHYSIOLOGY includes thorough instruction on the subject of animal physiology, with special reference to the physiology of Man.

The lectures on DENTAL PATHOLOGY include such portions of general pathology as have a bearing upon the special subjects taught.

Dentition and its possible pathological results receive careful attention, followed by a detailed consideration of all the diseases to which the teeth and surrounding parts are liable; the normal and abnormal character of the oral secretions, and the direct and remote relations that the pathological conditions of the mouth sustain to other portions of the system.

The treatment required under each head is explained, and the recognized processes necessary to secure a return to normal conditions are minutely detailed.

MATERIA MEDICA is taught with special reference to the character and value of those remedies which have any bearing upon dental therapeutics.

BACTERIOLOGY.—The study of BACTERIOLOGY is an obligatory part of the second year curriculum. The growing importance of this subject in relation to dental pathology and therapeutics has made necessary certain modifications in the technique of nearly all dental operations. A clear understanding of the practical bearing of bacterial life-processes has become a necessity for intelligent and successful dental practice, just as it has similarly for surgical practice.

The course is so arranged with respect to the requirements of the dental practitioner that he will afterwards be able not only to apply correctly the most approved methods for preventing and combating bacterial action, and to develop an efficient system of antiseptic technique in connection with his work; but he will also be trained in the several methods that will enable him to study the bacterial factor which is the exciter of pathological conditions in special cases arising in his practice.

The instruction in BACTERIOLOGY, which is under the direction of Dr. A. C. ABBOTT, Professor of Bacteriology and Director of the Laboratory of Hygiene, is principally practical and embraces full laboratory instruction, covering the following subjects:

1. Apparatus employed—sterilizers, incubators, pressure regulators, thermostats, etc.
2. Culture media, methods of preparation, sterilization methods.
3. Microscopic characteristics of cultures of bacteria in general and of special forms.
4. Methods of obtaining, from mixtures of different bacteria, individual species in pure cultures.
5. Microscopic technique. Use and care of instruments, staining from cultures, section cutting and staining and mounting of tissues.
6. Pathogenic bacteria, isolation, identification and inoculation.
7. Disinfection of instruments, appliances, etc., thermal and chemical, methods and apparatus, modes of testing efficiency.
8. Antisepsis and asepsis in dental surgery, preparation of dressings, instruments, operator and assistants and of patients.

Following this, the special study of Bacteriology in relation to dental pathological conditions will receive full consideration and elaboration. The classification, life-history, modus of infection and pathological significance of all bacterial forms having distinct dental importance will be studied in detail.

The lectures on these subjects are appropriately illustrated, and accompanied by suitable demonstrations whenever possible. The Laboratory of Hygiene has a thoroughly equipped department for practical instruction in Bacteriology, including an ample number of high-grade microscopes for the special use of dental students in the study of this branch. Examination upon the subject will be a prerequisite to the obtaining of the dental degree.

ORAL SURGERY is a specialty which is a distinct outgrowth from Dentistry. As the work of the dentist came to include operations upon the surrounding tissues, as well as upon the teeth themselves, the adoption of surgical methods and more thorough training in the principles and practice of surgery became necessary. The addition of instruction in this branch to the dental curriculum includes thorough instruction in the surgical and pathological anatomy of the mouth, jaws, and associate parts; the etiology, diagnosis and treatment of lesions of these parts; the most advanced methods of operative technique, including the use of the surgical engine, surgical anesthesia, asepsis and antisepsis, and after-treatment of the case.

The instruction is both didactic and clinical, and students are encouraged to study and personally treat cases under the supervision of the Professor of Oral Surgery and his assistants.

Special facilities for the performance of oral surgical operations and for the care of patients are provided in the University Hospital and the Philadelphia Hospital.

CLINICAL PRACTICE.

Seven hours daily (except on Saturdays) are spent in actual practice under the supervision of the demonstrators; on Saturdays from 9 A. M. to 12 M. Every student is required to provide his own instruments, except those for extracting. He is expected to keep them in perfect order, and will be furnished with a place in which they can be locked when not in use.

INFIRMARY AND LABORATORIES.

The Infirmary and Laboratories are open to the students for practice every day during the week, except on Saturday afternoons

which are reserved for clinics that may be given by members of the Faculty or instructors.

The Infirmary and Laboratories are open throughout the year, except during July and August.

MUSEUM AND CABINETS.

The WISTAR AND HORNER MUSEUM, founded about one hundred years ago, and annually augmented, is unequalled in the United States for the number and variety of its specimens of the normal and the morbid anatomy of the human body. It also contains a large number of preparations in Comparative Anatomy; a rich collection relating to Dentistry, such as the different stages of dentition, abnormal conditions of the teeth, mandibles of the lower animals, etc.; and an extensive collection of models. This collection is deposited in the building opposite Logan Hall, erected by the late General Isaac J. Wistar, and called the WISTAR INSTITUTE OF ANATOMY AND BIOLOGY. The Museum is open every week-day, excepting holidays, from 9 A. M. to 4 P. M., throughout the sessions. The matriculation fee in the School of Dentistry confers admission to the Museum.

TUITION FEES AND EXPENSES.*

The tuition fee is \$150 per annum and is due and payable in two equal parts, on October 1 and February 1, respectively. Remittances should be in cash, or by bank draft, certified cheque, or postal money order drawn for the exact amount due, made payable to the University of Pennsylvania, and paid to W. O. Miller, Bursar, Room 102, College Hall. A percentage is added to fees not paid within thirty-one days.

A matriculation fee of \$5.00 must be paid by all new students, whether previously registered in the University or not.

The matriculation fee must be paid in person and not forwarded in advance.

Under no circumstances are any changes made in the established fees.

Every student shall upon entering the University make a deposit of \$5.00 to cover loss, damage, or breakage of University property,

* For Estimate of Expenses, see pages 41 and 42.

library fines, or any charge not paid by the student in some other way. A student whose deposit is by charges against it reduced to \$2.50 or less shall be required to pay a sum sufficient to restore the deposit to its original amount. No deposit or balance remaining on a deposit shall be finally repaid to a student until he shall have been graduated or shall have formally withdrawn from the University.

Students of the School of Dentistry may attend, without additional charge, the lectures and recitations in any other department of the University. This privilege may be obtained only by the concurrent approval, in writing, of the respective Deans.

Instruments for the first year can be procured at from \$60 to \$75. A dental engine will be needed for the second year, costing from \$40 to \$60. Additional instruments will be required for the second-year and third-year work. These instruments may be utilized in general practice.

Rooms may be had at the University Dormitories or in houses near the University, and board may be had in private boarding houses in the immediate vicinity of the University. In any case the cost of board and lodging will be from \$5.00 a week upward.

Dental Hall is provided with locker facilities for the storage of instruments, apparel, etc. It is to be understood, however, that the lockers are provided solely as an accommodation, and that in renting them to the students the School assumes no responsibility whatever with respect to the care or loss of the contents.

First Year.

Matriculation Fee (paid once only)	\$5 00
Tuition Fee	150 00
Gymnasium and Houston Club Fee	10 00
Fee for Dissection	5 00
Use of Dissecting Material (one part).....	1 50
Breakage Deposit	5 00

Second Year.

Tuition Fee	\$150 00
Gymnasium and Houston Club Fee	10 00
Fee for Dissection	5 00
Use of Dissecting Material (one part).....	1 50

Third Year.

Tuition Fee	\$150 00
Gymnasium and Houston Club Fee	10 00

Further information may be obtained from

EDWARD C. KIRK, Dean.

The Dean's office is in Room 39, Dental Hall, Thirty-third and Locust streets. Office hours: 9 A. M. to 1 P. M., daily.

The total number of new matriculates for the present session, including those admitted to advanced standing, is 209.

Since the foundation of this School, the total number of graduates has been 2,512.

The subjoined reports give some conception of the character and mass of work performed in the Operative and Prosthetic Departments; but the amount of costly material and careful attention necessary for the insertion of 5,209 gold fillings can be appreciated only by the experienced operator.

The number of patients treated (12,560) exhibits the extent of the Dental Infirmary service to a large class of persons of limited means.

OPERATIVE DEPARTMENT.

Gold fillings	5,209
Tin fillings	5,915
Amalgam fillings	3,223
Cement fillings	1,420
Treatment of pulp and pulp canals	3,698
Extractions	2,996
Porcelain Inlays	448
Miscellaneous	429
Total	23,338

Sixty-four ounces (5 lbs. 4 oz.) of gold were used for filling, exclusive of that used for plate and crown work in the Laboratory

PROSTHETIC DEPARTMENT.

Full Dentures (Clinical, 146—Technic, 806).....	952
Partial Dentures (Clinical, 162—Technic, 680).....	842
Artificial Crown Work (Clinical, 284—Technic, 1,474).....	1,758
Repair cases	128
Bridge Work—Clinical	39
Bridge Work—Technic	372
Continuous Gum Bridge	130
Interdental Splints	134
Regulating Plates and Appliances	267
Total.....	4,622

ESTIMATE OF EXPENSES.

FIRST YEAR.

Matriculation Fee	\$5 00
General Tuition Fee	150 00
Gymnasium and Houston Club Fee	10 00
Dissecting Fee	5 00
Use of Dissecting Material (one part)	1 50
Breakage Deposit	5 00
Books (about)	30 00
Instruments (about)	70 00
Lockers	1 00
Material for Histological and Prosthetic Work	6 00
Board, 35 weeks at \$5.00	175 00
Washing, 35 weeks at 75 cents.....	26 25
Total, first year	\$484 75

SECOND YEAR.

General Tuition Fee	\$150 00
Gymnasium and Houston Club Fee	10 00
Dissecting Fee	5 00
Use of Dissecting Material (one part)	1 50
Dental Engine, instrument (about).....	50 00
Additional instruments (about)	90 00
Books (about)	20 00
Lockers	1 00
Material for Prosthetic Technic Work	2 00
Board, 35 weeks at \$5.00	175 00
Washing, 35 weeks at 75 cents	26 25
Total, second year	\$530 75

THIRD YEAR.

General Tuition Fee	\$150 00
Gymnasium and Houston Club Fee	10 00
Class expenses: rental of Cap, Gown, and Hood	5 00
Instruments (about)	30 00
Lockers	1 00
Material for Prosthetic Technic Work	2 00
Material for Ceramic Work	5 00
Board, 37 weeks at \$5.00	185 00
Washing, 37 weeks at 75 cents	27 75
Total, third year	\$415 75

STUDENTS.

THIRD-YEAR CLASS.

Name.	Residence.	City Address.
Abbott, Ernest Andrew,	N. Attleboro, Mass.,	Dorm. 42, House 25.
A'Court, Frank Clifford,	Christchurch, N. Z.,	258 S. 38th St.
Andersen, Birger,	Christiania, Norway,	3605 Locust St.
Tandlage (Christiania),	Newstead South, Glen	
Anderson, Edward Sinclair,	Innes, N. S. W.,	
B. D. S. (Sydney),	Australia,	3408 Sansom St.
Applegate, Albert Milne,	Asbury Park, N. J.,	102 S. 33d St.
Arms, Walter Thomas,	Richford, Vt.,	3269 Sansom St.
Arnold, Howard Bayles,	Morristown, N. J.,	3223 Sansom St.
Astley, Malcolm Penquin,	Auckland, N. Z.,	3271 Locust St.
Bailey, Thomas Dodd,	Dragston, N. J.,	735 N. 20th St.
Baker, George Francis,	Philadelphia,	752 S. 11th St.
Bateman, Henry Oxley,	Brooklyn, N. Y.,	3467 Chestnut St.
Beams, Walter Albert,	Newark, N. J.,	3612 Walnut St.
Beck, Berton Elmer,	Cogan House,	3271 Sansom St.
Behney Byron Stanley,	Carlisle,	3737 Spruce St.
Bell, Edward Harney,	St. John, N. B.,	
	Canada,	[1233 Upland St.,
		Chester.]
Bell, Thomas,	Auckland, N. Z.,	3406 Sansom St.
Bender, Reinhardt Paul,	Paterson, N. J.,	3467 Chestnut St.
Bentley, Harvey Wilcox,	Salem, N. Y.,	3341 Woodland Ave.
Berkhimer, Frank Wilkinson,	Roaring Spring,	3812 Locust St.
Burge, Cecil John,	Sydney, New South	
	Wales, Australia,	5717 Ludlow St.
Burt, Victor Charles,	Weymouth, England,	3332 Chestnut St.
L. D. S. (England),	Paterson, N. J.,	3416 Sansom St.
Cairns, Herbert William,	Lima, Peru,	Dorm. 33 Mask and Wig.
Castro, Herman, de,	Barranquilla, Columbia,	
Castro, Marco Tulio, de,	S. A.,	221 S. 33d St.
Castro, Ruben,	Heredia, Costa Rica,	
	C. A.,	3449 Woodland Ave.
Cheney, Howard Alonzo,	Watertown, N. Y.,	3612 Walnut St.
Cloutier, Daniel Henry,	Woonsocket, R. I.,	3612 Walnut St.
Cole, Lynn Rosevear,	Winnipeg, Man., Can.,	122 S. 34th St.
Colyer, George Clifford,	Freeport, N. Y.,	3730 Walnut St.
Conran, James Jacob,	Torrington, Conn.,	Dorm. 42 Mem. Tower.
Criswell, James Carl,	West Grove,	3324 Woodland Ave.
Crockett, Leonard Marshall,		
L. D. S. (England),	Northampton, Eng.,	3332 Chestnut St.
Crowell, Eldon Lewis,	Middletown, Conn.,	3612 Walnut St.
Crowley, William James	Bangor, Me.,	202 S. 37th St.
Curran, John Francis,	Galeton,	3263 Locust St.
Davis, Joseph Emerson,	Newcastle,	3801 Spruce St.
Day, Laurence Bret,	Adelaide, South	
	Australia,	3730 Walnut St.
Dear, David Phillip,	Wollongong, N. S. W.,	109 S. 34th St.
Decker, William Clyde,	Huntingdon,	3723 Spruce St.
Delgado, Hernández Luis Carlos,	Cartagena, Colombia,	
	S. A.,	221 S. 33d St.
De Long, Clarence Stoudt,	Reading,	3467 Chestnut St.
Douglas, Archibald Randolph		
Fulton,		
L. D. S. (Glasgow),	Greenock, Scotland,	3438 Walnut St.
Dunmire, Blair Howard,	South Fork,	3319 Walnut St.
Egan, Charles Francis,	Waterbury, Conn.,	3314 Walnut St.
Embler, Ralph,	Newburgh, N. Y.,	Dorm. 448 Lippincott.
Fenn, Albert William Backwell,	Southport, England,	222 S. 45th St.

Name.	Residence.	City Address.
Fiedler, Julius Walter Herman Johannes, Zahnarzt (Leipzig), Friederich, Ernest Phillip, Galvao, Henrique Feio,	Berlin, Germany, Arnhem, Holland, Rio de Janeiro, Brazil, S. A., Belleville, N. J., Newark, N. J., Benton, Reading, Sydney, New South Wales, Australia,	109 S. 34th St. 3331 Walnut St. 3338 Walnut St. 3730 Walnut St. Dorm. 253 N. Y. Alumni. 3266 Locust St. 218 S. 37th St.
Gierding, Ernest Charles, Glaser, Karl, Golder, Freas Marion, Goldsmith, Julius, Graham, Frank Hannibal,		222 S. 45th St. Dorm. 311 Phillips Brooks.
Graver, Milton Franklin,	Bath,	
Gunter, John Havelock,	Fredericton, N. B., Canada,	14 N. 36th St. 3612 Walnut St.
Haley, Robert Joseph, Hallenberg, Victor, Ham, Joseph Thomas,	Springfield, Mass., Fargo, N. D., Buenos Aires, Argentine Republic, S. A.,	Dorm. 25 E. F. Smith. 4200 Market St. 3612 Walnut St.
Harkins, Cloyd Summerfield, Harrison, Forrest Mayes, Hart, Howard McNeal, Hart, Samuel Corinaldi,	Altoona, Bristol, Conn., Montego Bay, Jamaica, W. I.,	3467 Chestnut St. 707 S. 16th St. 3223 Sansom St.
Hasselt, Ludolph Theodorus Arend van, Haywood, Leo Paul, Heath, Robert Harold, L. D. S. (England),	The Hague, Holland, Wellington, N. Z., Charlbury, Oxfordshire, England, Cohoes, N. Y.,	3336 Lancaster Ave. 3408 Sansom St. Dorm. 38 Bodine. 3730 Walnut St.
Hebert, Octave Napoleon, Heemskerk Duker, Jan Herman van, Hennessy, Daniel John, Herder, Samuel, Hirtle, Jerome Evan,	Hilversum, Holland, Hoosick Falls, New York, N. Y., Mahone Bay, N. S., Canada,	3336 Lancaster Ave. 111 S. 34th St. 2511 N. 33d St. 215 McAlpine St.
Hohenshilt, Benjamin F., A. B. (Penna. College), Holmes, Harold Brainerd, Holton, Thomas Aloysius, Hoyes, George Taverner, L. D. S. (Edinburgh), Ivory, James Thomas, Jacobsen, Johannes, Tandlæge (Copenhagen), Kelley, Frank John, Kelly, Daniel Joseph, Kelley, William Carpenter, B. S. (Bucknell), Ketcham, Stuart Theodore, Knopf, Isadore Harold, Koch, Otto Paul, Koontz, Howard Samuel, Labarraque y Arnaud, Victor, Lange, Poul, Tandlæge (Copenhagen), Lantier, Frank Henry, Lash, Clarence Henry, Law, John, Le Houllier, Emerson John, Leikin, Nathaniel Henry, Levin, Alfred Isak, Tandlakare (Stockholm), Lewis, Charles Walter, Jr., Lind, Gustav Johannes, Tandlæge (Copenhagen),	Loysville, West Winfield, N. Y., Philadelphia, No. Berwick, Scotland, Norwich, N. Y., Odder, Denmark, So. Norwalk, Conn., Fall River, Mass., Lewisburg, Stamford, Conn., Wallingford, Conn., The Hague, Holland, Woodsfield, Ohio, Guantanamo, Cuba, Copenhagen, Denmark, Clayton, N. Y., Loveland, Colo., Jane Lew, W. Va., Wallingford, Conn., New Britain, Conn., Stockholm, Sweden, Albany, N. Y., Kolding, Denmark,	3449 Walnut St. 3271 Sansom St. 1717 N. 7th St. 3922 Pine St. 3730 Walnut St. 3611 Locust St. 3604 Walnut St. 3714 Locust St. 206 S. 37th St. 3467 Chestnut St. 207 S. 33d St. 3336 Lancaster Ave. Dorm. 124 Baldwin. 111 S. 34th St. 3611 Locust St. 3266 Locust St. 3443 Woodland Ave. 3331 Walnut St. 3314 Walnut St. 3258 Sansom St. Hotel Lorraine. 3730 Walnut St. 3611 Locust St.

Name.	Residence.	City Address.
Lindstedt, Theodore Kent,	Greenwich, Conn.,	Dorm. 24 Rodney.
Litchfield, Murray Kingsley,	Christchurch, N. Z.,	216 De Kalb St.
Long, Millard Bean,	Camden, Me.,	3737 Spruce St.
Long, Orville Smith,	Wolf Hill, N. Y.,	223 S. 33d St.
Lüder, Gustav August,		
Zahnarzt (München),	Hanover, Germany,	3731 Spruce St.
Lugand, André Joseph,		
D. E. O. D. F., Chirurgien-Den-	Paris, France,	3350 Walnut St.
tiste (Paris),	Sydney, New South	
McElhone, George Hill,	Wales, Australia,	3271 Locust St.
	Philadelphia,	1170 S. Broad St.
	Melbourne, Australia,	3706 Spruce St.
Manning, John Warren, Jr.,	Danbury, Conn.,	3612 Walnut St.
Martin, Ernest Sidney,	Plainfield, N. J.,	3714 Locust St.
Meaney, Vincent Timothy,	N. Meiklefield, N. S.,	3330 Walnut St.
A. B. (Holy Cross),	Rome, N. Y.,	3730 Walnut St.
Meeker, Robert Wilson,	Binghamton, N. Y.,	3339 Woodland Ave.
Meikle, Duncan Pryor,	Perth Amboy, N. J.,	3319 Walnut St.
Meter, Frank William,	Scranton,	3319 Walnut St.
Moffatt, William Harrison,	Watertown, N. Y.,	3473 Sansom St.
Monseigle, Edmond Felix de,	Orange, N. J.,	3612 Walnut St.
Motchman, Henry Adams,	Olyphant,	3612 Walnut St.
Noyes, Byron Ellsworth,	Oak Ridge, N. J.,	223 S. 33d St.
Nutter, George Abel,	Buffalo, N. Y.,	3344 Walnut St.
O'Brien, John Robert,		
Oliver, William Blaine,	Berlin, Germany,	3459 Walnut St.
Paull, Wilton Colt,	Castlemaine, Victoria,	S. W. Cor. 40th and Locust
Pauson, Hermann,	Australia,	Sts.
Zahnarzt (Berlin),	Cairo, Egypt,	927 Clinton St.
Philpots, George Edward Payne,	Presque Isle, Me.,	3745 Spruce St.
M. A. C. D. (Melbourne),		
Pinkasfeld, Severin,	Paris, France,	3350 Walnut St.
Pipes, Hugh Graham,	Cartagena, Colombia,	
Pirou, Albert Louis,	S. A.,	221 S. 38th St.
D. E. O. D. F.,	Pottstown,	202 S. 37th St.
Chirurgien-Dentiste (Paris),	Penn Yan, N. Y.,	210 S. 36th St.
Pizarro, R., Edmundo,	Bloomington, N. J.,	3608 Locust St.
	Lyon Station,	Dorm. 49 E. F. Smith.
Potts, Lemuel Eastburn,	Mount Morgan, Queens-	
Pulver, Peter Carvey,	land, Australia,	3408 Sansom St.
Raffman, Abraham,	Fort Edward, N. Y.,	3265 Chancellor St.
Rapp, Ira Miller,	New Haven, Conn.,	3258 Sansom St.
Richards, Samuel Alexander,	Boston, Mass.,	943 N. 7th St.
B. D. S. (Sydney),		
Roberts, David Stephen,	Shrewsbury, England,	3332 Chestnut St.
Rosenbaum, Harry Louis,	Tuckerton, N. J.,	3324 Woodland Ave.
Rubin, Joseph,	Florence, Italy,	258 S. 38th St.
Salter, Frank Henry,	Danbury, Conn.,	3743 Spruce St.
L. D. S. (England),	Philadelphia,	3467 Chestnut St.
Sawyer, Samuel Rutherford,	Newburgh, N. Y.,	Dorm. 348 McKean.
Schaffner, Gerald Frederic,	Lancaster,	3732 Walnut St.
Serre, George Norton,	Guatemala City, Guate-	
Smith, David Scull,	mala, C. A.,	3347 Woodland Ave.
Smith, Frederick,	Tacoma, Wash.,	3467 Chestnut St.
Snyder, Charles Victor,	Moncton, N. B., Can.,	14 N. 36th St.
Solis Crocker, Ernesto,	East Orange, N. J.,	Dorm. 24 Rodney.
	Loveland, Colo.,	3730 Walnut St.
Stebbins, Arthur King,	Newington, Conn.,	3612 Walnut St.
Steeves, Simeon Aaron,	Ulm, Germany,	3330 Walnut St.
Stillwell, Edward Courtenay,	Kingston,	122 S. 33d St.
Stoddard, Fred W.,	Masterton, N. Z.,	213 De Kalb Sq.
Stoddard, Ralph Roswell,	Ocean Grove, N. J.,	102 S. 33d St.
Strobel, Hugo Karl,	Ogden, Utah,	3267 Chancellor St.
Strous, William Everett,	Winterport, Me.,	Dorm. 390 Lippincott.
Sutton, Rupert Ingram,		
Taylor, George W.,		
Thomas, Walter Dee,		
Thompson, Alva Clarke,		

Name.	Residence.	City Address.
Thompson, Herbert Walmsley,	Merchantville, N. J.	
Trott, Arthur George,		
L. D. S. (England),	Adelaide, S. Australia,	3332 Chestnut St.
Vandervoort, John Coe,	Paterson, N. J.,	Dorm. 13 Bishop White.
Wagner, Victor Roy,	Hunlocks Creek,	3801 Spruce St.
Walsh, Charles Aloysius,	Wilkes-Barre,	Dorm. 40 Bishop White.
Weiler, John Leo,	Sherburne, N. Y.,	3730 Walnut St.
Weinberger, Joseph,	Passaic, N. J.,	3608 Locust St.
Welch, Walter Henry,	Millbury, Mass.,	3812 Locust St.
Weston, William Henry,		
M. D. (Univ. of Cal.), D. D. S.	Sydney, New South	
(Kansas City),	Wales, Australia,	3704 Baring St.
Whitcomb, Carroll Byington,	Greenwich, N. Y.,	3467 Chestnut St.
Wilson, Charles Ralph,	Huntingdon,	3714 Locust St.
Winstone, Ernest Charles,	Auckland, N. Z.,	3265 Chancellor St.
Woolston, Horace Stephen,	Philadelphia,	735 N. 20th St.
Zauber, Emil,		
Zahnarzt (München),	München, Germany,	3256 Chestnut St.

SECOND-YEAR CLASS.

Allen, Andrew Bryden,	Dunmore,	3712 Spruce St.
Arias, Joaquin Maria,	Panama,	3332 Walnut St.
Bailey, Vivian Pincock,	Germantown,	[102 E. Price St.]
Barager, Christopher Fagan,	Hazleton,	3711 Woodland Ave.
Barberena, Narciso, Jr.,	Granada, Nicaragua,	
	C. A.,	3927 Baltimore Ave.
Barker, Clinton Reed,	Brooklyn, N. Y.,	Dorm. 133 Baird.
Baskin, Leslie Dean,	Florence, S. C.,	3256 Walnut St.
Baumgardner, Paul Nelson,	Wells Tannery,	3445 Walnut St.
Bell, William Forrest,	Auckland, N. Z.,	3406 Sansom St.
Bittenbender, Frank Milnes,	Bloomsburg,	3256 Chestnut St.
Blakeman, Ralph Sterling,	Mt. Vernon, N. Y.,	3730 Walnut St.
Blaschke, Hugo Johannes,	Berlin, Germany,	Dorm. 133 Baird.
Bleby, Charles Wendell,	Nassau, New Provi-	
	dence, Bahamas,	101 S. 33d St.
Blumer, Gabriel Edward,	Syracuse, N. Y.,	3467 Chestnut St.
Bookstein, Lionel Harry,	Albany, N. Y.,	3703 Locust St.
Brake, Blonda Steele,	Jane Lew, W. Va.,	3331 Walnut St.
Campbell, Kenneth Graham,	Philadelphia,	209 S. 33d St.
Cannon, James Thomas,	Oxford,	3265 Sansom St.
Carson, Robert Edward Vincent,	Philadelphia,	3629 Walnut St.
Champagne, Emory Carl,	New Haven, Conn.,	215 McAlpin St.
Dahl, Walter Herbert,	Fargo, N. D.,	3445 Walnut St.
Darrone, Leon Oliver,	Syracuse, N. Y.,	126 S. 34th St.
Davis, John Leigh,	Pulaski, N. Y.,	Dorm. 378 Hopkinson.
Davis, Parke Meade,	Ebensburg,	209 S. 33d St.
Day, John Crane,		
Ph. B. (Wesleyan),	Morristown, N. J.,	3412 Ludlow St.
De Camp, Ira Wilson,	Roseland, N. J.,	Dorm. 28 Rodney.
De Witt, Herman Erastus,	Wolfville, N. S., Can.,	3256 Walnut St.
Dolan, Edward George,	Stamford, Conn.,	116 S. 33d St.
Durler, Victor Henry,	Schenectady, N. Y.,	3305 Walnut St.
Duxbury, Paul Coats,	Pine Plains, N. Y.,	3406 Sansom St.
Edwards, George Samuel,	Enid,	3256 Walnut St.
Ellis, Jason Stanley,	Elmira, N. Y.,	3467 Chestnut St.
Fancher, Walter Earle,	Montrose,	3612 Walnut St.
Fellows, Armin Thomas,	Philadelphia,	4006 Chestnut St.
Fox, W. Harold,	Cobleskill, N. Y.,	629 N. 32d St.
Friderich, Julius Max,	Wallingford, Conn.,	207 S. 33d St.
Garcia, Manuel Tomas,	Riobamba, Ecuador,	
	S. A.,	217 S. 33d St.
Gillespie, Edward Raymond,	Binghamton, N. Y.,	3467 Chestnut St.
Goldschmidt, Lawrence Matthew,	Philadelphia,	1414 N. 8th St.
Gray, Walter Leon,	Bradley Beach, N. J.,	3743 Spruce St.
Green, Alexander Ralston,	Salem, N. J.,	Dorm. 31 E. F. Smith.

Name.	Residence.	City Address.
Gregg, Harry Veeder,	Schenectady, N. Y.,	3305 Walnut St.
Hammond, Julian Theodore, 3d,	Frankford,	[5005 Penn St.]
Harrington, James Boyle,	Ware, Mass.,	3612 Walnut St.
Hartley, Harry,	Philadelphia,	3743 Spruce St.
Hausman, Emanuel,	Newark, N. J.,	3715 Locust St.
Heath, Lewis Fuller,	Lakeport, N. H.,	3344 Walnut St.
Heefner, Mark Lester,	Waynesboro,	3743 Spruce St.
Hill, William Zina,		
B. S. (Geneva),	Pittsburgh,	3612 Walnut St.
Horrigan, William James,	Holyoke, Mass.,	Dorm. 387 Lippincott.
Hurley, Clarence Callan,	Wallingford, Conn.,	3743 Spruce St.
Jones, Arthur George,	Wellington, N. Z.,	3406 Sansom St.
Kelley, John Otis,	Syracuse, N. Y.,	Dorm. 45 Cox.
Kentgens, Johann Leonardo,	Hoengen, Germany,	3812 Locust St.
Kistler, Daniel Koehl,	Allentown,	Dorm. 54 E. F. Smith.
Kocher, Lawrence Edward,	West Orange, N. J.,	Dorm. 32 Morris.
Koehler, Robert Henry,	Bridgeport, Conn.,	3341 Woodland Ave.
Krause, H. Ogle,	Philadelphia,	1704 Green St.
Kremer, Frederic Baney,	Lebanon,	3443 Walnut St.
Lamb, Patrick Henry,	Paterson, N. J.,	3729 Spruce St.
Lane, Dennis Joseph,	Dushore,	3731 Market St.
Latham, Ernest Richard,	Providence, R. I.,	109 S. 34th St.
Levan, Carl Emil,	Altoona,	3467 Chestnut St.
Levy, Ellis,	Philadelphia,	1919 N. Mervine St.
Line, George William,	Carlisle,	3256 Walnut St.
McCushing, George Joseph Bernard,	Keene, N. H.,	3619 Sansom St.
McGinnis, Charles Thomas,	Paterson, N. J.,	Dorm. 32 E. F. Smith.
McWilliams, Hugh,	Philadelphia,	2133 Bainbridge St.
Maby, Edward Raymond,	Cohoes, N. Y.,	3331 Walnut St.
MacGeorge, Hubert,	Camden, N. J.,	[521 Broadway.]
Madden, John Joseph,	Danbury, Conn.,	3612 Walnut St.
Mahoney, Daniel Joseph,		
A. B. (Bates)	Rochester, N. H.,	217 S. 33d St.
Master, Edward Andrews,	Flushing, N. Y.,	Dorm. 22 Cox.
Mata, José Alejandro,		
Ph. B. (Ecuador),	Quito, Ecuador, S. A.,	3608 Walnut St.
Mathers, Frank Earle,	Woodbury, N. J.,	
Meierhoffer, Charles Joseph,	Orange, N. J.,	207 S. 33d St.
Michael, Reynard Conklin,	Mellenville, N. Y.,	3213 Summer St.
Miranda, Henrique Oswaldo de,	Pará, Brazil, S. A.,	258 S. 38th St.
Molinar, Pedro Julian,	Chihuahua, Mexico,	3262 Chestnut St.
Monson, Hollis Gilman,	Portland, Me.,	3467 Chestnut St.
Muntinga, Albert Franz,	Walla Walla, Wash.,	3412 Sansom St.
Murphy, Royle Lawrence,	Ogdenburg, N. Y.,	3251 Sansom St.
Murray, Jeremiah Louis,	St. John, N. B., Canada,	109 S. 34th St.
Nesbit, Bruce Squires,	Lewisburg,	1717 Arch St.
Neukirch, John Andreas,	Mülhausen, Elsass,	
	Germany,	3338 Walnut St.
Osmanski, Frank Edward,	Nanticoke,	3449 Walnut St.
Osmun, Alvin Fern,	Hackettstown, N. J.,	116 S. 33d St.
Packard, William Thornton,	Clayton, N. Y.,	207 S. 33d St.
Park, Alexander Edgar,	Wayne,	
Pellerano, Manuel de Jesus,	Santo Domingo, W. I.,	217 S. 33d St.
Perez, Vincent Leonidas, Jr.,	San José, Costa Rica,	
	C. A.,	3319 Walnut St.
Peters, Raymond Francis,	Egypt,	111 S. 34th St.
Petterson, Harry Eugene,	Worcester, Mass.,	Dorm. 387 Lippincott.
Pickard, George Clinton,	Victoria, B. C.,	3443 Woodland Ave.
Pitt, Edward,	Bexhill, England,	3408 Sansom St.
Proctor, Gerald Fitzgerald,	Port of Spain, Trinidad,	
	B. W. I.,	217 S. 33d St.
Quinn, Joseph Alexander,	New Brunswick, N. J.,	209 S. 33d St.
Quinn, Joseph Frank,	New Haven, Conn.,	3743 Spruce St.
Raabe, Charles Samuel,	Boise, Idaho,	258 S. 38th St.
Radin, Louis Ralph,	Newark, N. J.,	3606 Locust St.
Reed, John Claudius,	Drayton Island, Fla.,	3743 Locust St.
Reilly, John Albert,	Hudson,	Dorm. 46 Rodney.
Rufe, Edgar Johnson,	Revere,	Dorm. 315 Leidy.

Name.	Residence.	City Address.
Scott, Robert Douglas,	Strathfield, N. S. W., Australia,	101 S. 33d St.
Scully, Edward Paul,	Meriden, Conn.,	3314 Walnut St.
Shively, John Cornelius,	Caldwell, O.,	3467 Chestnut St.
Smith, Chester Earl,	Thornton, Wash.,	3412 Sansom St.
Solomons, Joseph R., Jr.,	Brooklyn, N. Y.,	Dorm. 363 Baird.
Stott, Harry Barton,	Rochester, N. Y.,	111 S. 34th St.
Sullivan, John Joseph,	Thompsonville, Conn.,	211 S. 33d St..
Sullivan, James Michael,	Fall River, Mass.,	3612 Locust St.
Tabakin, Henry,	Philadelphia,	1811 S. 6th St.
Talley, Dyer Beeler,	Syracuse, N. Y.,	3467 Chestnut St.
Vail, Clinton Theodore,	Middletown, N. Y.,	3612 Walnut St.
Vernon, George Herbert,	Florida, N. Y.,	Dorm. 373 Hopkinson.
Vickers, Arthur Templeton,	Camden, N. J.,	[15 N. 21st St.]
Wallace, William Henry, B. S. (Claffin),	Orangeburg, S. C.,	2115 Fitzwater St.
Walton, Charles Cleveland,	Thames, N. Z.,	3265 Sansom St.
Weaver, Lee A.,	Blossburg,	111 S. 34th St.
*Weintraub, Paul,	Philadelphia,	
Wharfield, Ernest Chester,	Springfield, Mass.,	Dorm. 313 Leidy.
Whitbeck, Clair Willis Van Slyke,	Lamson, N. Y.,	25 S. Van Pelt St.
Wright, William Munness,	Union City,	Dorm. 14 Morgan.
Zelfif, Cyrus V.,	Haledon, N. J.,	3703 Locust St.

FIRST-YEAR CLASS.

Appleton, Joseph Luke, Jr., B. S. (Hamilton),	Luzerne, N. Y.,	Dorm. 45 Morgan.
Axtmayer, Simon,	San Juan, P. R.,	424 N. 33d St.
Bailey, William Richard,	Adelaide, S. Australia,	3606 Locust St.
Barry, Francis Raymond,	New York, N. Y.,	3611 Locust St.
Beegan, Edward James,	New Haven, Conn.,	Dorm. 398 N. Y. Alumni.
Bestard, Miguel Enrique,	Philadelphia,	3258 Chestnut St.
Bestie, Edwin Henry,	Woolwich, New South Wales, Australia,	124 S. 34th St.
Bogatin, Samuel Ferdman,	Philadelphia	622 S. 3d St.
Brackett, Philip Chaplin,	S. Portland, Me.,	225 S. 33d St.
Bray, Joseph Aloysius,	Hartford, Conn.,	27 N. 34th St.
Briggs, Edgar Zeh,	Schenectady, N. Y.,	3305 Walnut St.
Broad, Walter Harold,	South Fork, Pa.,	3319 Walnut St.
Brown, John Draper, Jr.,	Wilmington, Del.,	[1004 Adams St.]
Brunner, Claude,	Reinholds,	3931 Pine St.
Carter, Henry McCormick,	Jersey Shore,	3416 Sansom St.
Chapman, Guy Brougham,	Brisbane, Queensland, Australia,	218 S. 37th St.
Clarke, William Francis,	Granville, N. D.,	909 S. Vogdes St.
Close, Hugh William,	Philadelphia,	653 Brooks Ave.
Costa, Juan Bautista,	Guayaquil, Ecuador, S. A.,	124 S. 34th St.
Creegan, Joseph Michael,	New Haven, Conn.,	3743 Spruce St.
Crowly, Arthur William,	Canandaigua, N. Y.,	3340 Walnut St.
Cunningham, Martin Thomas,	Holyoke, Mass.,	3338 Chestnut St.
Donehue, Edward John,	Whitehall, N. Y.,	Dorm. 325 Franklin.
Donovan, William Henry,	St. Albans, Vt.,	225 S. 33d St.
Dougherty, Francis William,	Mt. Airy,	[205 Allen Lane.]
Dunfee, John Frey,	Towanda,	3440 Walnut St.
Dunleavy, James Matthew,	New Haven, Conn.,	Dorm. 46 Morgan.
Easton, Burt Abbott,	New York, N. Y.,	205 S. 33d St.
Ewing, DeForrest Willard,	Philadelphia,	3014 Girard Ave.
Farley, LeRoy Webster,	Trenton, N. J.,	3340 Chestnut St.
Finlay, James Colin,	Auckland, N. Z.,	9 N. 36th St.
Fosdick, Willard Albion,	Ansonia, Conn.,	3743 Spruce St.
Foster, Heman Nickerson,	Augusta, Me.,	121 S. 34th St.
Frank, Austin,	Woodside, N. Y.,	3272 Chancellor St.
Frey, Raymond Earl,	Steelton,	3710 Locust St.

* Not in attendance.

Name.	Residence.	City Address.
Garfat, Arvy Addison,	Winnipeg, Man., Can.,	122 S. 34th St.
Gorman, John Joseph,	St. Clair,	3531 Locust St.
Grameko, Enrique José,	Puerto Cabello, Venez- uela, S. A.,	3350 Walnut St.
Guthrie, John Edward Henry,	Newark, N. J.,	221 S. 33d St.
Hamilton, William Nathaniel,	New Haven, Conn.,	3300 Baring St.
Harkins, Leonard Jones,	Philadelphia,	4917 Florence Ave.
Harris, Francis John,	Providence, R. I.,	3338 Chestnut St.
Harris, Frank Wesley,	Morris, Minn.,	Dorm. 35 Mem. Tower.
Hershfield, Alfred,	New York, N. Y.,	3332 Walnut St.
Holmes, Edward Morgan,	West Pittston,	121 S. 34th St.
Hutchinson, Ralph Henry,	Augusta, Me.,	225 S. 33d St.
Inlay, Harry Miller,	Allentown, N. J.,	3612 Walnut St.
Irvin, Lafayette Lee,	Winchester, Ind.,	[425 Cooper St.]
Irwin, David Hayes Agnew,	Camden, N. J.,	225 S. 33d St.
Johnson, John Harry,	Hainesville, N. J.,	1631 Oxford St.
Jones, William Brendel,	Philadelphia,	215 McAlpin St.
A. B. (C. H. S.),	Johnstown, N. Y.,	3608 Walnut St.
Joslin, John Whitman, Jr.,	Cuenca, Ecuador, S. A.,	5617 Spruce St.
Jouve, César Guillermo,	Lestershire, N. Y.,	3221 Sansom St.
Kaley, Myrle,	Bridgeport, Conn.,	126 S. 34th St.
Keeley, Joseph Francis,	New York, N. Y.,	1141 S. 18th St.
Kelly, Clavert Edward,	Philadelphia,	3717 Locust St.
Kelly, Charles Francis, Jr.,	S. Hadley Falls, Mass.,	
Keogh, John Joseph,	Sydney, New South Wales, Australia,	126 S. 34th St.
Kerr, Kenneth Younger,	Ehrenfeld,	3319 Walnut St.
Kingsley, Gary E.,	Philadelphia,	3724 N. 18th St.
Kirshbaum, Milton Alexander,	Harrisburg,	3725 Spruce St.
Kochenour, Paul Gerhart,	Philadelphia,	2120 S. Hicks St.
Krouse, Albert Groff,	Seranton,	256 S. 37th St.
Lockery, John Walter,	Collingswood, N. J.,	3340 Chestnut St.
Lore, Carleton Francis,	Rouseville,	Dorm. 32 E. F. Smith.
McComb, Fred. Armstrong,	Paterson, N. J.,	Dorm. 43 Morgan.
McCrystal, Joseph, Jr.,	Bangor, Me.,	3900 Market St.
McGinn, Harold Joseph,	Albany, N. Y.,	3422 Sansom St.
McKeon, Francis Joseph,	Huntington, W. Va.,	1226 N. 42d St.
*McNeer, Thomas Theodore,	Philadelphia,	
McPherson, Edward Koch,	Frankfurt A./M., Ger- many,	3704 Locust St.
Macfarlane, Douglas Graham,	Wilmington, Del.,	[607 W. 5th St.]
Maris, Robert Hoopes,	Guayaquil, Ecuador,	3608 Walnut St.
Martinez Serrano, Ignacio Alberto, Ph. B. (Ecuador),	S. A.,	
Molina, Carlos Hilario,	Quezaltenango, Guate- mala, C. A.,	3447 Woodland Ave.
Monsell, Ray Harrison,	Greenport, L. I., N. Y.,	3706 Walnut St.
Morris, Robert Dunham,	New Haven, Conn.,	3647 Woodland Ave.
Morrow, Roy Nadin,	Paterson, N. J.,	Dorm. 13 Bishop White.
Moynihan, James Jeremiah,	Glen Falls, N. Y.,	3323 Walnut St.
Munson, Wilford Gibbud,	New Haven, Conn.,	126 S. 34th St.
Nash, Roscoe John,	Frenchtown, N. J.,	126 S. 34th St.
Nicholas, Guy Elwin,	Augusta, Me.,	121 S. 34th St.
Northrop, Benjamin Howard,	East Hampton, Long Island, N. Y.,	3610 Locust St.
Oestreich, Geo. Washington,	Philadelphia,	1643 W. Huntingdon St.
O'Leary, Cornelius Joseph,	Glen Falls, N. Y.,	3323 Walnut St.
Olive, Thomas Homer, B. A. (Wake Forest),	Apex, N. C.,	3340 Chestnut St.
O'Rourke, James Joseph,	Providence, R. I.,	115 S. 34th St.
Parker, George Eugene,	Kissimmee, Fla.,	3457 Walnut St.
Pearce, Matthew Chalmers,	Orange, N. J.,	3271 Locust St.
Pennington, Walter Ambrose,	Millville, N. J.,	Dorm. 33 Morgan.
Perry, James Neil, Jr.,	Germantown,	[113 W. Logan St.]

* Not in attendance.

Name.	Residence.	City Address.
Phillips, Glen Shattuck,	Linesville,	Dorm. 51 Mem. Tower.
Phreaner, Ellis Hall,	Media,	603 Roger Williams Bldg.
Powell, Edward Harold,	Skaneateles, N. Y.,	3251 Sansom St.
Pratt, Frederick William,	Timaru, N. Z.,	126 S. 34th St.
Protzel, Albert,	Lima, Peru, S. A.,	3323 Walnut St.
Protzel, Julius,		3323 Walnut St.
Provot, Francis Adolphe,		
C. E. (Columbia),	New York, N. Y.,	3258 Chestnut St.
Randall, Lyman Frederick,	Oneida, N. Y.,	3416 Sansom St.
Randall, Orville Felt,	Central Park, B. C.,	
	Canada,	223 S. 33d St.
Rapp, Herbert Merker,	Reading,	Dorm. 40 E. F. Smith.
Reed, George Henry,	Hampden Highlands,	
	Me.,	Dorm. 55 Coxe.
Reisner, Leon,	Long Branch, N. J.,	225 S. 33d St.
Ribble, Roy Dufford,	Washington, N. J.,	Dorm. 301 Phillips Brooks.
Riechelmann, Guy Ernest,	Mackay, Queensland,	
	Australia,	214 S. 37th St.
Rietmüller, Richard Henri,		
Ph. D. (Pennsylvania),	Reichenbach, Stuttgart,	
	Germany,	3612 Walnut St.
Rine, Clyde S.,	Winchester, Ind.,	3611 Locust St.
Roberts, Eugene Walton,	Riverton, N. J.	
Roche, Thomas Joseph, Jr.,	Mt. Airy,	[212 Gowen Ave.]
Ruddy, Charles John,	Brooklyn, N. Y.,	Dorm. 362 Baird.
Russell, Daniel Stephen,	Philadelphia,	3440 Mantua Ave.
Sandman, Mervin Finis,	Greenport, L. I., N. Y.,	3400 Walnut St.
Saravia, Antonio Gonzales,	Guatemala, Guatemala	
	City, C. A.,	3258 Chestnut St.
Shields, Robert Cardwell,	Philadelphia,	3704 Locust St.
Shoemaker, Edwin,		
B. S. (Haverford),	do.	2011 Chestnut St.
Slocum, Harold Sheridan,	Oswego, N. Y.,	122 S. 33d St.
Smith, Edwin Howell,	Philadelphia,	2526 Diamond St.
Smith, Warren Linwood,	Augusta, Me.,	121 S. 34th St.
Stein, George Koser,	Lykens,	3424 Sansom St.
Stern, David Samuel,	Paterson, N. J.,	Dorm. 11 Bishop White.
Stone, Harold Adelbert,	New Haven, Conn.,	3743 Spruce St.
Stritch, John Herbert,	Gilbertville, Mass.,	225 S. 33d St.
Sturdevant, Tracy Beadle,	Elmira, N. Y.,	Dorm. 50 E. F. Smith.
Swing, Charles William,	Philadelphia,	703 N. 40th St.
Tarasido, Rodolfo,	Buenos Aires, S. A.,	3249 Locust St.
Toledo, Julio Everardo,	Guatemala City, Guate-	
	mala, C. A.,	3441 Walnut St.
Tuck, William Washington,	Brooklyn, N. Y.,	Dorm. 309 Phillips Brooks.
Van Dine, Elmer Martin,	Cedarhurst, N. Y.,	Dorm. 54 Mem. Tower.
Vines, Walter Edward,	Mechanicsville, N. Y.,	3219 Sansom St.
Walker, Slater Rolland,		
A. B. (Geneva),	Beaver Falls,	219 S. 33d St.
Waters, John Aloysius,	Poughkeepsie, N. Y.,	3416 Sansom St.
Weigester, Charles Smiley,	Troy,	3712 Locust St.
Westney, Harry Leon,	Palmyra, N. J.	
White, George Ernest,	Cohoes, N. Y.,	Dorm. 367 Hopkinson.
White, Louis Edwin,	Lopez,	3608 Locust St.
White, Samuel Wesley,	Philadelphia,	3542 N. 16th St.
Wilbur, Daniel Webster,	Pine Plains, N. Y.,	3406 Sansom St.
Williams, Thomas Henry,	Philadelphia,	5332 Kingsessing Ave.
Wilson, Joseph Edward,	Stamford, Conn.,	3931 Baltimore Ave.
Winslow, Henry Allen,	Fall River, Mass.,	Dorm. 247 Carruth.
Winter, Howard Carson,	New Kingston, N. Y.,	256 S. 37th St.
Yetman, Arthur Leon,	Freehold, N. J.,	3743 Locust St.
Yost, Allan Kuney,	Waterloo, N. Y.,	Dorm. 41 Mem. Tower.
Younger, Frank Joseph,	Madrid, Spain	124 S. 34th St.

SPECIAL STUDENTS.

Name.	Residence.	City Address.
DeWilde, Valère Aimé, M. D. (Belgium),	Hansbeke, Belgium,	124 S. 34th St.
Falero, Juan Oscar,	Mexico City, Mexico,	Dorm. 220 McKean.
Jones, Edward George,	Bowral, Australia,	222 S. 45th St.
Pinto, Raymundo de Frietas, Cirurgiao Dentista (Brazil),	Manáus Amazonas, Brazil, S. A.,	3611 Locust St.
Werneck, Julio Furquim, Cirurgiao Dentista (Brazil),	Rio de Janeiro, Brazil, S. A.,	3612 Hamilton St.

SUMMARY.

Students of the Third-year Class.....	162
Students of the Second-year Class.....	124
Students of the First-year Class.....	144
Special Students.....	5
Total	435

GEOGRAPHICAL SUMMARY OF DENTAL STUDENTS.

Argentine Republic.....	2	Minnesota.....	1
Australia.....	18	New Hampshire.....	3
Belgium.....	1	New Jersey.....	52
Brazil.....	4	New York.....	77
British Columbia.....	3	New Zealand.....	12
British West Indies.....	2	Nicaragua.....	1
Canada.....	9	North Carolina.....	1
Colombia.....	3	North Dakota.....	3
Colorado.....	2	Norway.....	1
Connecticut.....	34	Ohio.....	2
Costa Rica.....	2	Panama.....	1
Cuba.....	1	Pennsylvania.....	103
Delaware.....	2	Peru.....	3
Denmark.....	3	Porto Rico.....	1
Ecuador.....	5	Rhode Island.....	4
Egypt.....	1	Santo Domingo.....	1
England.....	6	Scotland.....	2
Florida.....	2	South Carolina.....	3
France.....	2	Spain.....	1
Germany.....	10	Sweden.....	1
Guatemala.....	4	Utah.....	1
Holland.....	4	Venezuela.....	1
Idaho.....	1	Vermont.....	2
Indiana.....	2	Washington.....	3
Italy.....	1	West Virginia.....	3
Maine.....	12		
Massachusetts.....	14		
Mexico.....	2		
		Total.....	435

DEGREES IN COURSE.

At a public Commencement, held on WEDNESDAY, JUNE 16, 1909, the degree of Doctor of Dental Surgery was conferred on the following:

Eduardo Acosta	William John Frost
Henry Kiver Allison	Donald Lindsay Galbreath
Joseph Elliott Andrews	John Joseph Gavin
Luis Raul Angulo	Hubert George Gick
Samuel Freas Ashelman	Ivar Charles Gingras
George Egerton Balderston	Ernest Emil Girard
Joseph James Barrett	Maurice Charles Girardin
Irvin Halsey Beach	Chester Nathaniel Gitt
Charles Wesley Beauchamp	Edward Carl Godfrey
Herbert Patrick Beckett	Thomas Augustus Gormley
Harry LeRoy Billings	Earl Ellsworth Greenwell
Theodor Blum	Edward Henry Grosse
David Albert Bolard	Gordon Melton Gunn
Hendrik Hermann Theodorus	Harald Anders Jean Hallander
Arie Bor	Michael Benedict Harris
Rolla Jay Bristol	John Leon Hartranft
Frank William Walford Broughton	William John Heintz
Edward Leo Brown	Jerome Gross Hess
William Allen Brown	William Irving Hoot
Reginald Arthur Bull	William Henry Horahan
Stuart Franklin Bushong	Herbert Vivian Hordern
William Henry Calhoun	Rollin Dewey Jenney
Luis de la Carrera	James Hoffer Johnson
Gonzalo de la Cerda	John Watkins Jones
Frank Augustus Chapman	James Henry Keane
William David Clifford	Carl Fred Keim
Clarence Roth Colborn	J. Craig King
Henri Collard	Eugene Kienzle Krause
Arthur Mantor Cragin	Joseph Kuttner
Lawrence Charles Crockett	Jan Willem van Kuyk
John Hamilton Dalrymple	Edwin George Lauder, Jr.
Harold Evans Davis	Lionel Jeffrey Llewellyn
Charles Richard Dayton	Morton Joseph Loeb
Jacques Colin Frederic Demarquette	Fabio Leite Loureiro
George Lancelot Deschler	George Francis Madigan
Edmund Atwell Devine	Charles Augustus Mallon
Charles Henry Doran	Samuel Hugh Marron
Herman Ettenson	Frank Marshall
Niles Maxon Faulkner	James Carr Maslen
James Francis Feely	Israel Samuel Miller
	Edwin Royle Morris
	Karl Nachtigall

Lewis Edwin Neagley	Norman Ray Snively
Eugene John O'Curry	Samuel Sobel
Joseph Ignatius O'Farrell	Fulgence Lucien Solas
William Samuel Paine	Paul Victor Soxhlet
Seymour Thomas Percival	Frederick Charles Stevens
Rollo Oliver Peters	William Denton Taylor
Isaac Smedley Pike, Jr.	Edwin Spencer Tebbutt
James Joseph Quigley	Charles Edgar Wagg
Rafael Robles, Jr.	Maynard Bruce Warburton
William John Charles Ruempler	Sydney Stark Warner
Glanville Kossuth Satchell	George Alfred Wessner
John William Scherer	Robert Lunsford Wheless
Joseph Wilbur Scott	Thomas Lowry Wilcox
Paul Seitz	Charles Henry Wilkinson
Arthur William Smith	William Jefferson Wilkinson
Walter Cornell Smith	Edwin St. Clair Wren
Adolphe Zimmermann	

In University Council, Friday, December 17, 1909:

Doctor of Dental Surgery:

Herman Joseph Brachmen.....	as of the Class of	1909.
Frank Aloysius Cairns.....	" " " " "	1909.
Brenno Amaro Caminha.....	" " " " "	1909.
Pedro Baptista Gomes de Freitas.....	" " " " "	1909.
Fred Browning Hamilton.....	" " " " "	1909.
Harry McDonald Kirkpatrick.....	" " " " "	1909.
William J. Mikola.....	" " " " "	1909.
Joseph James O'Farrell.....	" " " " "	1909.
William Harry Rogers.....	" " " " "	1909.
Charles Hills Ryan.....	" " " " "	1909.
Mortimer Sanderson.....	" " " " "	1909.
Raymond Marcus Walls.....	" " " " "	1909.
William Watts.....	" " " " "	1909.

STUDENT DENTAL SOCIETIES.

The JAMES TRUMAN, EDWIN T. DARBY and EDWARD C. KIRK Dental Societies were organized for mutual benefit in the study of Dentistry; as a means of training in the management of dental professional organizations, to foster the spirit of individual investigation and research, and to promote social intercourse and good fellowship among the members. Every member of the Societies in good standing, on graduating from the School of Dentistry, receives a certificate. Regular meetings are held every two weeks during the session.

SOCIETY OF THE ALUMNI OF THE SCHOOL OF DENTISTRY.

President.—Charles R. Turner, M. D., D. D. S.

Vice-Presidents.—Frederick W. Allen, D. D. S.; Alex. H. Reynolds, D. D. S.; Eugene K. Krause, D. D. S.

Secretary and Treasurer.—George C. Parry, D. D. S., 731 North Forty-first St., Philadelphia, Pa.

Every graduate of the School of Dentistry in good standing is considered to be a member of this Society, and will be sent bills for dues. Any member who shall pay into the treasury the sum of five dollars, or who shall for five years pay into the treasury the sum of one dollar annually, can by payment of \$1.50 secure a membership certificate.

The annual meeting is held on the day previous to Commencement, and is followed in the evening by a collation.

Alumni are requested to send to the Secretary notice of change of residence, or other information likely to be of service to the Society.

DENTAL CALENDAR FOR 1910-11.

1910.

- Mar. 24, Thursday Easter Recess begins: 6 P. M.
Mar. 29, Tuesday Easter Recess ends: 9 A. M.
June 3, Friday.....Entrance Examinations: 2.30 P. M.
June 15, Wednesday....Commencement, 11 A. M.
Sept. 15, Thursday Competitive Examination for Dental
Scholarships: 9 A. M.
Sept. 16, Friday Entrance Examinations: 2.30 P. M.
Sept. 20, Tuesday Re-examination of Conditional Stu-
dents, and Examinations for Admis-
sion to Advanced Standing: 10 A. M.
Sept. 23, Friday.....Session begins: 8 P. M.
Nov. 23, Wednesday ...Thanksgiving Recess begins: 6 P. M.
Nov. 28, Monday Thanksgiving Recess ends: 9 A. M.
Dec. 22, Thursday Christmas Recess begins: 6 P. M.

1911.

- Jan. 3, Tuesday Christmas Recess ends: 9 A. M.
Jan. 23, Monday Mid-Year Examinations begin: 9 A. M.
Feb. 22, Wednesday ...University Day. Recess.
April 13, Thursday Easter Recess begins: 6 P. M.
April 18, Tuesday Easter Recess ends: 9 A. M.
June 21, Wednesday ...Commencement, 11 A. M.



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